



ONLYIAS
BY **PHYSICS WALLAH**

PRAYAS

PRACTICE Workbook

FOR

ENVIRONMENT

Complete Environment through MCQs

QUESTION Booklet

500+ MCQs



FOR UPSC CSE 2023

PREFACE

Curiosity is fundamental to human existence and while preparing for one of the toughest exams, one is naturally curious as to how to learn and practice for gateway (PRELIMS) to civil services dream.

Thus, to satisfy this eagerness of an aspirant and help one prepare for UPSC prelims thoroughly we have the best possible solution for you i.e. **PRAYAS- PRACTICE WORK BOOK**. It is based on "reverse engineering technique" of analysing the syllabus of environment and ecology in elementary form.

Environment holds a paramount position in UPSC-CSE prelims due to its linkages with forest service. **PRAYAS** constitutes prudent effort of various experts who have researched and analysed the fundamental pattern of asking previous year questions. Covering any subject completely is always a tedious task but **PRAYAS** has been framed with an innovative approach of completing the syllabus comprehensively through **500+ MCQs** along with solution. It will help candidates to revise the concepts, facts and figures related to environment and ecology, eventually catalysing their efforts to clear arduous phase of prelims.

We sincerely hope, **PRAYAS** will serve as a valuable guide and companion for the aspirants who are preparing for the environment section of the UPSC prelims exam.

TABLE OF CONTENT

1. ECOLOGY AND FUNCTIONS OF ECOSYSTEM	2
2. TERRESTRIAL AND AQUATIC ECOSYSTEM	10
3. ENVIRONMENT POLLUTION	25
4. RENEWABLE ENERGY	36
5. ENVIRONMENTAL ISSUES	43
6. BIODIVERSITY	48
7. PROTECTED AREA'S	61
8. OZONE DEPLETION	67
9. CLIMATE CHANGE AND MITIGATIONS.....	69
10. CLIMATE CHANGE ORGANIZATIONS.....	79
11. ENVIRONMENTAL ORGANIZATIONS AND INTERNATIONAL ENVIRONMENTAL CONVENTIONS:	84
12. AGRICULTURE.....	95
13. INSTITUTIONS AND MEASURES	105
14. ACTS AND POLICIES.....	112
15. MISCELLANEOUS.....	123

Ecology and Functions of Ecosystem

Q1. Which of the following plant mechanisms is influenced by light?

1. Chlorophyll production.
2. Vegetative development.
3. Effect on transpiration rate.
4. Stomatal movements.
5. Distribution of plants.

Select the correct answer from the codes given below:

- (a) 1, 2, 3 and 4 only
- (b) 1, 3 and 5 only
- (c) 2, 3, 4 and 5 only
- (d) 1, 2, 3, 4 and 5

Q2. With respect to the pyramid of energy, consider the following statements:

1. It is also known as the trophic pyramid and is always upright.
2. Concept of ecological efficiency can be explained with its help.
3. Shorter the food chain more will be food energy available.

Which of the given statements above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q3. Match the following lists regarding various ecological rules:

List 1 (Rules)	List 2 (Related)
A) Bergmann's Rule	1) Body size with respect to warm/cold weather condition
B) Allen's Rule	2) Body surface area to volume ratio.

C) Rensch's Rule	3) Sexual size dimorphism.
D) Jordan's Rule	4) Temperature effect on morphology of fishes.
E) Gloger's Rule	5) Pigmentation changes with respect to environments.

Select the correct answer from the codes given below:

- (a) A-1, B-2, C-3, D-4, E-5
- (b) A-2, B-1, C-3, D-5, E-4
- (c) A-2, B-1, C-5, D-4, E-3
- (d) A-1, B-3, C-2, D-4, E-5

Q4. Arrange the following level of organization of an ecosystem in ascending order starting from protoplasm:

1. Organisms
2. Tissues
3. Population
4. Ecosystem
5. Cells
6. Communities
7. Biomes

Select the correct answer from the codes given below:

- (a) 5 < 2 < 1 < 3 < 6 < 4 < 7
- (b) 5 < 2 < 1 < 6 < 3 < 4 < 7
- (c) 2 < 5 < 1 < 6 < 3 < 7 < 4
- (d) 2 < 5 < 1 < 3 < 6 < 7 < 4

Q5. With respect to the r/k reproduction strategies consider the following statements:

1. R-strategist species reproduce rapidly under favorable conditions and also offer higher parental care

2. K-strategies species focus on reproducing few, healthy, complex offspring that can receive ample care so that they go on to survive till adulthood.

Which of the above given statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q6. Principle of reciprocal exclusion suggests:

- (a) Two species that possess the same ecological niche cannot live together in the same ecosystem.
- (b) Each species having its own vital preference can develop very well within its adaptive potentialities, without any competitions.
- (c) Species do not express its entire genetic potential. It develops only as part of its potential.
- (d) Both b and c

Q7. Which of the following statements regarding circadian rhythm is/are correct?

1. It is a response mechanism due to various environmental factors.
2. Observed only on birds and mammals and is a vital part of their survival.

Select the correct answer from the codes given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q8. Which of the following is/are the structural factors of the ecosystem?

1. Species composition
2. Stratification
3. Trophic Structure
4. Standing state

5. Standing crop

Select the correct answer from the codes given below:

- (a) 1, 2 and 4 only
- (b) 3 only
- (c) 3, 4 and 5 only
- (d) 1, 2, 3, 4 and 5

Q9. Diapause can be defined as,

- (a) Period of an organism spending a specific time of the year in a dormant stage.
- (b) A period of suspended development during unfavorable conditions.
- (c) Prolonged dormancy period of an organism during a hot or dry period.
- (d) A period of non-activity during cell cycle and cell division of an organism.

Q10. With respect to ecology, the term resource partitioning means:

- (a) Division of limited resources by species to help avoid competition.
- (b) Immigration in maintaining the persistence of the local population that would otherwise go extinct.
- (c) When both species superficially resemble each other.
- (d) Decline in production under conditions of low population density.

Q11. With reference to Mangroves, consider the following statements:

1. Mangrove forest usually grow only at Tropical and Subtropical latitudes near equator
2. Mangroves are found in India only along Eastern coast due to delta formation by East flowing rivers

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q12. With reference to various steps involved in the process of Decomposition, consider the following Statements:

1. Humification leads to formation of humus which is highly resistant to further chemical action.
2. Mineralization is an essential pre-requirement for Humification to occur.
3. Catabolism is the last step of Decomposition.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q13. With reference to the Ecological Pyramid, consider the following statements:

1. The Base of the Ecological Pyramid is occupied by the food producers while Tip is occupied by the carnivores.
2. The number, biomass and energy of organisms gradually increase with each step/trophic level of the pyramid.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q14. With reference to Ecological Pyramids, which of the following pairs is *incorrect*?

- (a) Forest Ecosystem - An Upright Pyramid of Number
- (b) Grassland Ecosystem - An Inverted Pyramid of Number
- (c) Aquatic Ecosystem - An Inverted Pyramid of Biomass
- (d) Grassland Ecosystem - An Upright Pyramid of Biomass

Q15. With reference to Ecological Adaptation, consider the following statements:

1. Presence of higher amount of Red Blood Cells in Tribes living at high altitude in Himalayas is an example of Physiological Adaptation.
2. The acquired effects of adaptation pass on to the next generation.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q16. With reference to Ecological Niche, consider the following statement:

1. Ecological niche is the functional role and position of species in its ecosystem.
2. Ecosystem stability has an inverse relation with Niche Diversity.
3. The ecological niche of dominant species is broader and more extensive compared to that of less dominant species.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q17. Consider the following statements in context of Levels of Organizations in Ecology:

1. Population is a group of organisms usually of different species occupying a defined area during a specific time.
2. A biosphere is the collection of a particular ecosystem, while biome is the collection of all the biospheres.
3. Biome and Ecosystem both are affected by latitude.

Which of the statements given above is/are *incorrect*?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only

(d) All of the above

Q18. Consider the following statements regarding the Functions of an Ecosystem:

1. Ecosystems are capable of maintaining their state of equilibrium.
2. The ecosystem's functional attributes keep the components working together.
3. The Heterotrophs play a vital role in recycling the nutrients in an ecosystem.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q19. Consider the following statements regarding the Phosphorus Cycle:

1. It is a type of Sedimentary Cycle
2. The phosphorus cycle starts in the earth's crust and ends up into plants, animals and soil.
3. The amount of phosphorus washed away during the farm-to-table process leads to severe eutrophication.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q20. Consider the following statements in context of Ecological Pyramids:

1. Saprophytes are not given any place in ecological pyramids.
2. The Terrestrial ecosystems are the example of the Inverted pyramid of Biomass.
3. The pyramid of Energy is always Inverted, with a large energy base at the top.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q21. Match the following list 1 with list 2 and choose the correct answer from the codes given below:

List 1 (Terms)	List 2 (Related Features)
A. Ecotone	I. A zone of gradual but continuous change from one ecosystem to another.
B. Ecocline	II. A zone of junction or a transition area between two diverse ecosystems.
C. Ecological Niche	III. Changes in population or community structures at the boundary of two habitats.
D. Edge effect	IV. Interrelationship of a species with all the biotic and abiotic factors affecting it.

Codes:

	A	B	C	D
(a)	II	III	IV	I
(b)	III	I	II	IV
(c)	II	I	IV	III
(d)	III	IV	I	II

Q22. Consider the following statements regarding food chains in ecology:

1. In the grazing food chain, the primary source of energy is living plant biomass while in the detritus food chain the source of energy is dead organic matter.

- Grazing and Detritus food chains are not interlinked to each other.
- If any of the intermediate food chain is removed, the succeeding links of the chain will not be affected largely.
- The extinction of a top carnivore like Tiger in an ecosystem can affect the relative abundance of herbivore species.

Which of the statements given above are correct?

- 1, 2 and 4 only
- 1, 2 and 3 only
- 1 and 4 only
- 2 and 3 only

Q23. Consider the following statements regarding the nutrient cycling processes:

- Water cycle and carbon cycle are examples of Gaseous cycles, in which the reservoir is atmosphere or the hydrosphere.
- Nitrogen, Phosphorus, calcium and magnesium circulate by means of the sedimentary cycle, where the reservoir is the earth's crust.
- Nitrogen fixation on earth is accomplished only through microorganisms.
- Most gaseous cycles are generally considered as imperfect cycles.

Which of the statements given above is/are correct?

- 1, 2 and 4 only
- 2 and 3 only
- 1 only
- 4 only

Q24. Consider the following statements regarding ecological succession:

- Climax community is the initial or first stage of ecological succession.
- Primary succession happens when a new patch of land is created or exposed for the first time.

- Wildfires increase the pace of ecological succession.

Which of the statements given above is/are correct?

- 1 only
- 2 and 3 only
- 2 only
- 1 and 3 only

Q25. Consider the following statements regarding Ecotone:

- Ecotone is a zone of junction between two or more diverse ecosystems that may be narrow or quite wide.
- Well-developed ecotones contain only the same organisms as that of the adjoining communities.
- Edge effect refers to the changes in population or community structures that occur at the Ecotone.
- The mangrove forests represent an ecotone between forest and desert ecosystem.

Which of the statements given above are correct?

- 2 and 3 only
- 2, 3 and 4 only
- 1 and 3 only
- 1, 2, 3 and 4

Q26. Consider the following statements regarding Food chain:

- A food chain is the movement of nutrients and energy from one creature to another at different trophic levels.
- Energy provided by the sun is the primary component in every food chain.
- Particular food chains remain unchanged in every environment.

Which of the statements given above is/are correct?

- 1 only
- 2 and 3 only

- (c) 2 only
 (d) 1 and 2 only

Q27. Which of the following statements correctly explains Potential Resources?

- (a) Resources which are in current utilization.
 (b) Resources which can't be used due to its uselessness.
 (c) Resources whose utility is not known at present but can be used in future.
 (d) None of the above.

Q28. Consider the following statements regarding the process of Eutrophication in water bodies:

1. Large amounts of Nitrates and Phosphates cause eutrophication in waterbodies.
2. In natural Eutrophication, a lake is characterized by nutrient enrichment during which Eutrophic Lake is converted into an Oligotrophic Lake.
3. Eutrophication causes dead zones, which are hypoxic areas in the world's oceans and large lakes where aquatic lives cannot survive.

Which of the statements given above are correct?

- (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) 1, 2 and 3

Q29. There is no net benefit or harm to either species. Perhaps in some interspecific interactions, the costs and benefits experienced by each partner are exactly the same so that they sum to zero. It is not clear how often this happens in nature. It is also sometimes described as the relationship between two species inhabiting the same space and using the same resources, but that have no effect on each other. In this case, one could argue that they aren't interacting at all.

Identify the Biotic interaction from the options given below:

- (a) Neutralism
 (b) Mutualism
 (c) Commensalism
 (d) Amensalism

Q30. Consider the following food chain:

Litter → Earthworms → Chicken → Hawk

Identify the food chain from the options given below:

- (a) Heterotrophic
 (b) Detritus
 (c) Grazing
 (d) Autotrophic

Q31. Which of the following is/are the goods and services provided by ecosystems?

1. It helps in generation and renewal of soil fertility, including nutrient cycling.
2. It provides food and fuel only.
3. It stabilizes and modernizes the Earth's climate.

Select the correct answer using the code given below:

- (a) 1, 2 and 3
 (b) 1 only
 (c) 1 and 3 only
 (d) 2 only

Q32. With reference to Ecotone, consider the following statements:

1. It is a zone of junction between two or more identical ecosystems.
2. A well-developed ecotone contains only the organisms which are entirely the same as that of the adjoining communities.

Which of the statements given above is/are correct?

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

Q33. Consider the following statements regarding biotic interactions:

1. A large tree shades a small plant, retarding the growth of the small plant is an example of Commensalism.

2. Relationship between two species inhabiting the same space and using the same resources, but that have no effect on each other is called Mutualism.
3. Cow dung provides food and shelter to dung beetles whereas the beetles have no effect on the cows is an example of Amensalism.

Which of the statements given above is/are not correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q34. Consider the following statements regarding levels of organization in ecology:

1. Communities are a group of organisms usually of the same species occupying a defined area during a specific time.
2. In order to survive, individuals of any one species depend on individuals of different species with which they actively interact in several ways are called population.
3. A biome is a large ecological area with similar climatic conditions and can have multiple ecosystems within it.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 3 only

Q35. Consider the following statements regarding ecosystem functions:

1. The capacity of ecosystems in maintaining their state of equilibrium and regulating their own species structure and functional processes is known as homeostasis.
2. Hibernation occurs in animals living in deserts and tropical regions to protect themselves from hot and dry climate, and due to the scarcity of food water.

3. Aestivation is the condition in which the animals go dormant during winters by lowering their metabolic activities.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q36. Which of the following organisms are known by the term Saprotrophs?

- (a) The organisms that survive on the blood of their prey.
- (b) The organisms that live on other organisms' bodies.
- (c) The organisms that decompose dead and decaying organic matter.
- (d) The organisms that eat organisms of the same species.

Q37. Consider the following statements regarding the productivity of the Ecosystem:

1. The rate of production of both organic and inorganic matter is known as an ecosystem's gross primary productivity.
2. The biomass that is available for consumption by heterotrophs is known as net primary productivity.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q38. Which one of the following best describes the term "extirpation"?

- (a) Disappearance of an organism or a group of organisms due to environmental forces or evolutionary changes in their members.
- (b) The reduction of a species to such low abundance that, although it is still present in

the community, it no longer interacts significantly with other species.

- (c) Species of plants or animals that ceases to exist in a chosen geographic area of study, though it still exists elsewhere.
- (d) It is the state of a species being found in a single defined geographic location.

Q39. With reference to Ecosystems in general, consider the following statements:

1. Greater biodiversity leads to greater stability in Ecosystems.
2. All Ecotones are rich in biodiversity.
3. The Abiotic factors affecting the Aquatic ecosystems are sunlight, water currents, salinity, microbes, depth and nutrients.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 3 only

Q40. With reference to Ecosystems, consider the following statements-

1. All Terrestrial animals are warm blooded in nature.

2. Plants in the aquatic ecosystem have well developed root systems.
3. Only Terrestrial animals breathe through their lungs.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) All of the above

Q41. Consider the following statements:

1. An Ecotone is a population that is adapted to local environmental conditions.
2. The density of organisms present is lesser in the ecotone compared to the surrounding environments.
3. Areas experiencing edge effects might have higher predation levels than interior habitats.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

Answer Key

Q.1) Ans: D	Q.9) Ans: B	Q.17) Ans: D	Q.25) Ans: C	Q.33) Ans: D
Q.2) Ans: D	Q.10) Ans: A	Q.18) Ans: A	Q.26) Ans: A	Q.34) Ans: D
Q.3) Ans: A	Q.11) Ans: A	Q.19) Ans: D	Q.27) Ans: C	Q.35) Ans: A
Q.4) Ans: A	Q.12) Ans: A	Q.20) Ans: C	Q.28) Ans: C	Q.36) Ans: C
Q.5) Ans: B	Q.13) Ans: A	Q.21) Ans: C	Q.29) Ans: A	Q.37) Ans: B
Q.6) Ans: A	Q.14) Ans: B	Q.22) Ans: C	Q.30) Ans: B	Q.38) Ans: C
Q.7) Ans: D	Q.15) Ans: C	Q.23) Ans: C	Q.31) Ans: C	Q.39) Ans: C
Q.8) Ans: D	Q.16) Ans: B	Q.24) Ans: B	Q.32) Ans: D	Q.40) Ans: D
				Q.41) Ans: D

Terrestrial and aquatic ecosystem

Q1. Consider the following statements about Amazon rainforests:

1. Amazon rainforests are spread over 80% of Brazil.
2. It is bounded by the Guiana highlands to the north, Atlas Mountains to the west and Atlantic Ocean to the east.
3. They are net absorbers of the carbon on the planet.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) None of the above

Q2. Consider the following difference between Tropical and Temperate rainforests:

1. While tropical rainforests are characterized by uniform temperature and rainfall, temperate rainforests exhibit seasonality with regard to temperature and rainfall.
2. Both tropical and temperate rainforests have rich undergrowth of small trees and shrubs.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. Consider the following statements about boreal forests:

1. These forests are found in cold regions with high rainfall and long winters.
2. Soil in these forests is nutrient-poor and acidic mainly because of the cold environment.
3. Boreal forests are the world's largest terrestrial carbon sink.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q4. Which of the following adaptations can be seen in the animals of desert regions?

1. They are nocturnal in habit.
2. They have long legs.
3. They have thick black-coloured fur on their body.
4. They have big ears.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1, 2 and 3 only
- (c) 1, 2 and 4 only
- (d) 3 and 4 only

Q5. Consider the following pairs of aquatic organisms:

	Type of Aquatic organism	Description
1.	Neuston	Organisms which remain attached to stems and leaves of rooted plants
2.	Periphyton	Organisms which live at air-water interface
3.	Nekton	Organisms which are powerful swimmers
4.	Benthos	Organisms which live at the bottom of the water

Which of the above pairs are correctly matched?

- (a) 1 and 2 only

- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4 only

Q6. Which of the following statements with reference to survival of coral reefs is *incorrect*?

- (a) Coral reefs rarely develop in water deeper than 50 meters.
- (b) Coral reefs require very saline water ranging from 32 to 42 parts per million.
- (c) Coral reefs require clean and clear water for survival.
- (d) None of the above

Q7. Consider the following statements about Biological/ Biochemical oxygen demand (BOD):

1. It is the amount of oxygen consumed by bacteria and other microorganisms while they decompose organic and inorganic matter under aerobic conditions.
2. Clean water has a BOD value less than 5 ppm whereas highly polluted water has a BOD value of 17 ppm or more.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q8. Which of the following are the adaptations found in mangroves?

1. Viviparity mode of reproduction
2. Stilt roots
3. Pneumatophores
4. Thin leaves
5. Lenticulate bark

Select the correct answer using the code given below:

- (a) 1, 2, 3 and 5 only
- (b) 1, 2, 4 and 5 only

- (c) 2, 3 and 4 only
- (d) 1, 2, 3, 4 and 5

Q9. Which of the following adaptations can be found in the desert plants?

1. Reduced size or absence of leaves.
2. Presence of chlorophyll in the stems of the plants.
3. Narrower root system.
4. Reduction in photosynthesis during dry period.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 3 and 4 only

Q10. Which of the following statements with reference to cold water corals is correct?

- (a) They do not need sunlight for their survival.
- (b) Because of cold conditions they are only small in size.
- (c) Cold water corals grow much faster than the warm water corals.
- (d) None of the above.

Q11. Consider the following statements with reference to the Grassland ecosystem in India:

1. These grasslands are found where rainfall is 25-75cm per year.
2. In western parts of Rajasthan, mainly savanna grassland ecosystems are found.
3. 'Vidi' is a form of grassland ecosystems of Gujarat.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only

(d) 2 and 3 only

Q12. Consider the following statements with reference to Kelp forests:

1. Kelp forests are large brown algae found in coastal areas.
2. They require cold, nutrient-rich and relatively clear water.
3. They show a very high rate of growth, as high as half a meter a day.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q13. These types of forests are found along the Western Ghats, the Nicobar and Andaman Islands and all along the northeastern region. These are characterized by tall, straight trees. The more common trees in these forests are the jackfruit, betel nut palm, jamun, and mango. The trees in these forests form a tier pattern: shrubs cover the layer closer to the ground, followed by the short-structured trees and then the tall variety.

Which of the following forest types is described in the above passage?

- (a) Tropical dry evergreen forests
- (b) Tropical dry deciduous forests
- (c) Tropical wet evergreen forests
- (d) Tropical moist deciduous forests

Q14. Consider the following statements with reference to swamp ecosystems:

1. These are wetlands marked by the complete absence of trees.
2. They are characterized by mineral soils.
3. They exist in areas with poor drainage and sufficient water supply.

Which of the above statements is/are incorrect?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

Q15. Consider the following statements with reference to the estuary ecosystem:

1. In estuaries, water level and salinity rise and fall with the tides and seasons.
2. Flow of salt water into the estuaries is called estuarine current, which is warmer than anti-estuarine currents.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q16. Consider the following pairs of type of forest and region in which they are primarily found in India:

	Type of Forests	Region
1.	Littoral and Swamp forests	Andaman and Nicobar
2.	Tropical thorn forests	Gujarat
3.	Sub alpine forests	Arunachal Pradesh
4.	Montane wet temperate forests	Andhra Pradesh

Which of the above pairs are correctly matched?

- (a) 1, 2 and 3 only
- (b) 1 and 4 only
- (c) 2 and 3 only
- (d) 3 and 4 only

Q17. Consider the following pairs of Ramsar sites in India and their location:

	Ramsar Site	Location
1.	Kolleru lake	Andhra Pradesh
2.	Ashtamudi	Tamil Nadu

3.	Lonar lake	Maharashtra
4.	Kabartaal	Bihar

Which of the above pairs are correctly matched?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 4 only
- (d) 1, 2 and 4 only

Q18. Consider the following ecosystems:

- 1. Temperate forests
- 2. Savanna
- 3. Tundra
- 4. Estuaries

Which of the following is the correct sequence in decreasing order of mean net primary productivity of the given ecosystems?

- (a) 1-4-2-3
- (b) 2-4-1-3
- (c) 4-1-2-3
- (d) 3-2-1-4

Q19. Consider the following statements with reference to Temperate desert in India:

- 1. These are found in Ladakh, Spiti valley of Himachal Pradesh and Sikkim.
- 2. They are arid because of the rain-shadow effect of the Himalayas.
- 3. Soil in these deserts has low water retention capacity.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3 only

Q20. Consider the following statements with reference to desertification:

- 1. In India, desertification is confined to Rajasthan, Gujarat, Punjab and Haryana due to the presence of Aravalis.
- 2. The United Nations Convention to Combat Desertification is the sole legally binding international agreement linking environment and development to sustainable land management.
- 3. India has pledged to restore 26 million hectares of degraded land by 2025.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

Q21. With reference to Terrestrial Ecosystems, consider the following statements-

- 1. Temperature and Precipitation are the two limiting factors of the Terrestrial Ecosystems.
- 2. Plants are at the base of the food web in the terrestrial ecosystems.
- 3. Alterations and changes in land use is one of the major concerns of the terrestrial ecosystem.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above.

Q22. In the context of Terrestrial and Aquatic Ecosystems, consider the following statements-

- 1. Grazing food webs are common to both Terrestrial and Aquatic Ecosystems.
- 2. Both terrestrial and aquatic ecosystems are affected by temperature, salinity, and sunlight.



3. Terrestrial ecosystems can support more trophic levels than the aquatic ecosystems.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 2 only

Q23. With reference to Aquatic Ecosystems, consider the following statements:

- 1. Changes in precipitation alters the hydrologic characteristics of aquatic systems.
- 2. The level of the Dissolved oxygen in aquatic ecosystems is a function of salinity.
- 3. Aphotic Zone is where the environmental factors are conducive for photosynthesis.

Which of the statements given above is/are incorrect?

- (a) 1 and 3 only
- (b) 2 only
- (c) 3 only
- (d) 2 and 3 only

Q24. Consider the following statements-

- 1. Estuaries are essential components of the Terrestrial Ecosystem.
- 2. Monocropping is a threat to the Grassland Ecosystems.
- 3. Fungi acts as decomposers in aquatic environments.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 2 only

Q25. Consider the following pairs-

Terms	Some associated Characteristics
1. Eutrophication	The nutrient-enrichment of the lakes
2. Limnetic Zone	Sunlight does not penetrate here.
3. Trophic cascade	The addition or removal of top predators in an ecosystem.

Select the correct answer using the code below-

- (a) 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1 only

Q26. With reference to Terrestrial Ecosystems consider the following statements:

- 1. Nocturnal Behavior of animals in desert ecosystems is an adaptation behavior.
- 2. Predators are the primary consumers in the Terrestrial Ecosystems.
- 3. Terrestrial Ecosystems act as a Natural Carbon Sink of the Earth.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 2 and 3 only

Q27. In the context of Terrestrial ecosystems, consider the following statements-

- 1. Wetlands are ecotones between Terrestrial and aquatic ecosystems.
- 2. The presence of diverse coniferous tree species are characteristics of Tropical Forests.
- 3. Dense canopies of vegetation are found in the Tundra Forest Ecosystem.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 only
- (d) 3 only

Q28. Consider the following pairs-

Ecosystems and its components	Characteristics/Examples
1. Tundra Ecosystem	Mosses, Lichens, Sledges
2. Lotic Ecosystem	Ponds, Marshes, Lakes.
3. Algae	Decomposers of the Aquatic ecosystem.

Select the correct answer using the code below-

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 only
- (d) All of the above.

Q29. Consider the following statements:

1. Desert ecosystem has the highest average net primary productivity.
2. Changes in the temperature profile with depth in an aquatic system is called Thermal Stratification.
3. Estuaries have a higher productivity as compared to the Grassland Ecosystems.

Which of the statements given above is/are incorrect?

- (a) 2 and 3 only
- (b) 1 only
- (c) 1 and 3 only
- (d) All of the above

Q30. With reference to the Aquatic Ecosystems, consider the following statements:

1. Blue carbon is the carbon stored in coastal and marine ecosystems whereas green carbon is the carbon taken up by terrestrial ecosystems
2. Increased sediment deposition from the urban construction has resulted in greater turbidity and decreased photosynthesis in the aquatic ecosystem.
3. Only natural wetlands have water purification functions.

Which of the statements given above are correct?

- (a) 2 and 3 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) All of the above.

Q31. In the context of Terrestrial and Aquatic Ecosystems, consider the following statements-

1. In the marine Ecosystems biomass pyramids are often inverted.
2. Pyramid of energy is inverted in Terrestrial Ecosystems.
3. Fungi are autotrophs that occupy the base of the terrestrial food web.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 1 and 3 only
- (c) 1 only
- (d) All of the above.

Q32. With reference to Aquatic Ecosystems, consider the following statements:

1. Water depth affects the presence and the type of life in an aquatic ecosystem.
2. The rise in temperatures of the aquatic ecosystems will be less as compared to that of the terrestrial ecosystems.

3. Some marine organisms create bioluminescence as a form of an Adaptation.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above.

Q33. Consider the following statements about the Desert Ecosystems of the Earth:

- 1. CAM Pathway in the plants helps to increase photorespiration and reduce water usage.
- 2. The lowest net primary productivity of the terrestrial environments is found in Deserts.
- 3. Xerophyte plants have fewer stomata to reduce water loss via transpiration.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

Q34. Consider the following statements about the Terrestrial Ecosystems:

- 1. Fires act as a limiting factor in the Grassland Ecosystems.
- 2. Buttress roots in the Tundra Vegetation helps in the nutrient uptake.
- 3. The Rate of decomposition is high in the Tropical Rainforests.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

Q35. In the context of the Terrestrial and Aquatic Ecosystems, consider the following-

- 1. Transpiration occurs in both Terrestrial and Aquatic Plants.
- 2. Inter-tidal Zones do not experience any Edge effects.
- 3. Podzols are the typical soils found in the boreal ecosystems.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 only
- (d) All of the above.

Q36. Consider the following statements:

- 1. Vivipary is a form of reproductive adaptation shown by Mangroves.
- 2. Pelagic Zones are areas that are attached to the shores of the surrounding lands.
- 3. Thermal pollution leads to an increase in the dissolved oxygen level in aquatic ecosystems.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 only
- (d) All of the above.

Q37. Consider the following statements about the Tidal Forest Ecosystems:

- 1. Tidal forests in India are found in the regions of Godavari, Krishna, and Mahanadi.
- 2. Destruction of mangroves is causing the decrease of the Kharai Camels.
- 3. Mangrove trees take up oxygen through their roots.

Which of the statements given above is/are incorrect?

- (a) 1 only

- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q38. The regions are characterized by long winters and moderate annual precipitation and are composed primarily of cone-bearing needle-leaved or scale-leaved evergreen trees. They are the world's largest terrestrial ecosystem and account for about 29% of the Earth's forests. It primarily consists of coniferous trees, such as pines, although there are some other deciduous trees. It is also known as boreal forest.

Which type of terrestrial ecosystem/biome is explained in the above statements?

- (a) Tundra
- (b) Taiga
- (c) Temperate deciduous forests
- (d) None of the above

Q39. Consider the following statements regarding Factors limiting the Productivity of Aquatic Habitats:

1. Cold water has less oxygen with respect to warm water that affects survival of aquatic organisms.
2. Small changes in water temperature poses a great threat to the survival of aquatic organisms.
3. Sunlight penetration determines the extent of plant distribution in aquatic habitat.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q40. Consider the following statements regarding food chains:

1. In an aquatic ecosystem, the detritus food chain is the major conduit for energy flow.

2. In a terrestrial ecosystem, the grazing food chain is the major conduit for energy flow.
3. Grazing food chain and detritus food chain interact with each other at some levels.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) All of the above

Q41. Consider the following statements regarding Eutrophication:

1. It causes a tremendous increase in the primary productivity of the ecosystem.
2. It leads to a condition known as algal bloom which restricts the penetration of sunlight.
3. It is primarily seen in lakes and rivers due to the leaching of phosphate or nitrate containing fertilizers.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q42. Consider the following statements regarding Estuarine Ecosystem:

1. An Estuary is a semi enclosed coastal body of water which is the most productive region.
2. Glacial processes and Tectonic processes are one of two physical geomorphic processes responsible for Estuary Formation.
3. Commercial Fishing & Siltation destroys the estuary ecosystem of Chilka lake which is a part of Montreux record.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q43. Consider the following statements regarding Desertification in India:

1. India is not a signatory to the United Nations Convention to Combat Desertification.
2. Desertification and Land Degradation Atlas shows the state-wide data of Land Degradation is released by Council for Scientific and Industrial Research (CSIR).
3. Vegetation degradation, the temporary or permanent reduction in the density, structure, species composition of vegetation cover is the largest contributor for desertification.
4. India witnessed an increase in the level of desertification in 28 states and Union territories between 2011-13 and 2018-19.

Which of the statements given above are incorrect?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

Q44. Consider the following statements regarding forest types in India:

1. The productivity and community stability of a boreal forest are lower than those of any other forest ecosystem.
2. Tropical Dry evergreen forest are found throughout the northern part of the country except in the North-East.
3. Sub alpine forests extend from Kashmir to Arunachal Pradesh between 2900 to 3500 meters.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q45. Consider the following statements about Deforestation:

1. The Deforestation declaration was signed by 100+ countries which represented over 90 percent of forests across the world.
2. India is a signatory to the Deforestation declaration.
3. The declaration commits to halt and reverse forest loss and land degradation by 2025 while delivering sustainable development and promoting an inclusive rural transformation.
4. Forest Conservation Act, 1980 is the nodal legislation that regulates deforestation in India.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 4 only
- (c) 1 and 4 only
- (d) 2, 3 and 4

Q46. Consider the following statements regarding mangroves:

1. Mangroves are trees and bushes growing below the low water level of spring tides.
2. It produces pneumatophores (blind roots) to overcome respiratory problems in anaerobic soil conditions.
3. When they are degraded their carbon is released as carbon dioxide, which contributes to global warming.
4. 'Mangroves For the Future' programme is the initiative of the IUCN and FAO.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4 only

Q47. Consider the following statements regarding coral reefs:

1. Corals are the largest living structure on the planet, a marine invertebrate without a spine.
2. Australian great barrier reef is the largest reef system in the world.
3. Reef systems are non-resilient and incapable of recovering after disturbances such as cyclones and heat stress.

Select the correct answer using the codes given below:

- (a) 1 and 3 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 2 only

Q48. Consider the following statements regarding coral reefs:

1. Coral has a symbiotic relationship with 'zooxanthellae' that assist the coral in nutrient production through its photosynthetic activities.

2. The corals are generally fast-growing colonies of plants while zooxanthellae are slow growing animals.
3. While the majority of coral reefs are found in tropical and sub-tropical water, there are also deep-water corals in colder regions.
4. Among the four major reef areas of India, Gulf of Kutch are found to be very rich in species diversity.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) 1 and 4 only

Q49. Consider about the India State of Forest Report (ISFR) 2021:

1. There has been an increase in the forest cover across the country as compared to ISFR 2019.
2. India State of Forest Report (ISFR) is an annual publication of Forest Survey of India.
3. This report has for the first time assessed forest cover in tiger reserves, tiger corridors and the Gir forest which houses the Asiatic lion.

Which of the statements above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 2 only

Q50. Consider the following statements regarding Seaweed:

1. Seaweed is the primitive, marine non-flowering marine fungi with root, stem and leaves.
2. Budget 2021 had proposed a multi-purpose seaweed park to be set up in Tamil Nadu.
3. Seaweed is used for medication, nutrition as well as bio indicator.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q51. In the context of Corals, consider the following statements -

1. 'Coral Triangle' is located in Indian Ocean consisting of Maldives, Mauritius, Madagascar, Comoros and other nearby islands.
2. Corals help to provide insights on the patterns of the onset and withdrawal of Indian monsoons.
3. 'Global Coral Reef Research and Development Accelerator Platform' is an NGO by activists established for the protection of corals worldwide.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 1 and 3 only
- (c) 2 only
- (d) 2 and 3 only

Q52. Consider the following statements regarding 'Algal bloom' found in the aquatic system around the world:

1. Algal bloom can be caused by anthropogenic activities as well as by natural conditions.
2. Algal blooms are more likely to occur in the cold regions of the world.
3. Blue-green algae blooms occur due to agricultural and urban runoff in the aquatic system.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 3 only

- (c) 1 and 3 only
- (d) 2 and 3 only

Q53. Consider the following statements regarding Seabed 2030 Project:

1. The Seabed 2030 Project is a collaborative project between the Nippon Foundation of Japan and the General Bathymetric Chart of the Oceans (GEBCO).
2. The project aims to collect bathymetric data of the ocean floor for restricted use by the Government of Japan.
3. The project can help in understanding ocean circulation, tides and biological hotspots.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

Q54. With reference to ban on captivity and conservation of Dolphins, consider the following statements:

1. Cetaceans, including whales, dolphins and porpoises, are known to be highly intelligent animals and captivity alters their behavior and causes extreme distress.
2. Recently, the Ministry of Environment, Forest and Climate Change announced that October 5 will be celebrated as National Dolphin Day.
3. Under Conservation efforts, Project Dolphin is aimed at conserving the freshwater dolphins only.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q55. With reference to the Forest Ecosystem, consider the following:

1. It includes a complex assemblage of different kinds of biotic communities.
2. On the basis of soil and climate only, the distribution of trees is determined.
3. It has been classified into three major categories namely Boreal forests, temperate forest and tropical forest.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q56. With reference to the Coastal Ecosystem, consider the following statements:

1. The coastal ecosystems occur where the land meets the sea and that includes only mangrove forest and coral reefs.
2. The Indian National Centre for Ocean Information Services has carried out coastal vulnerability assessments for the entire Indian coast at state level.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q57. Consider the following statements regarding Himalayan region:

1. The Indian Himalayan Region is spread across 13 Indian States/Union Territories.
2. 'Glaciers of the Himalayas: Climate Change, Black Carbon, and Regional Resilience' is a report released by the IUCN.
3. The 'Mission Butterfly' is related to the Nainital town of Uttarakhand state.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q58. Consider the following statements regarding wetlands management in India:

1. The Wetlands (Conservation and Management) Rules, 2017 define wetlands as "area of marsh, fen, peatland and all paddy fields as well as river channels.
2. National Wetland Inventory and Assessment is compiled by the Ministry of Environment Forest and climate change.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q59. What are the initiatives are/can be taken by the government to tackle environmental challenges in Himalayan Region?

1. Ban on Plastic to prevent non- biodegradable garbage.
2. Participatory Conservation of Lakes.
3. Sustainable Tourism and Solid waste management at the point of origin.
4. Construction of Green roads.

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) All of the above

Q60. Consider the following statements regarding Permian era and Oceans Great Dying 2.0:

1. Oceans Great Dying 2.0 is similar to the Permian extinction.
2. The Permian era was a time after the dinosaurs ruled the planet.
3. During the Permian era, land masses collided to form the supercontinent Pangaea.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1 and 2 only

Q61. Consider the following statements regarding Indian ecology:

1. In Himalayan Mountain System, the east Himalayas have low rainfall, heavy snowfall, whereas in the west Himalayas, there is heavy rainfall, snowfall only at very high altitudes.
2. Tropical rain forest region of India is distributed in areas of western ghats, north east India and Andaman and Nicobar Islands
3. The Mangrove Swamps of Sundarbans are the delta of the Ganges and Brahmaputra.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1 and 2 only

Q62. With reference to the Zones of Ocean on the basis of availability of Sunlight, consider the following statements:

1. Only photosynthesis takes place in a photic zone due to availability of light.
2. Neither photosynthesis nor respiration takes place in an Aphotic Zone.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q63. With reference to Zones of Ocean, consider the following statements:

1. Circalittoral Zone is dominated by Algae.
2. Subtidal zone is never exposed to the atmosphere.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 & 2
- (d) Neither 1 nor 2

Q64. Consider the following statements with reference to Indian Himalayan Region:

1. It generates a plethora of services only for Himalayan inhabitants and has a permanent snow cover and glaciers.
2. It is warming increasingly due to positive radiative effects due to water vapor at the top of the atmosphere.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q65. Consider the following statements regarding India State of Forest Report 2021:

1. India State of Forest Report is prepared by the Forest Survey of India which has been mandated to assess the forest and tree resources of the country.
2. The total forest and tree cover of the country is 24.62 percent of the geographical area of the country.

3. A decrease in mangrove cover has been observed as compared to the previous assessment of 2019.
4. In terms of forest cover as percentage of total geographical area, top five States are Madhya Pradesh followed by Arunachal Pradesh, Chhattisgarh, Odisha and Maharashtra.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4 only

Q66. Consider the following statements regarding the tundra biome:

1. The tundra biome is distributed only in the Northernmost region of world adjoining the ice bound pole.
2. This biome is devoid of trees except stunted shrubs and ground flora includes lichen, mosses and sedges.
3. Rising global average temperature turning the tundra into a source of greenhouse-gas emission.
4. Global Warming creates potential feedback loops that encourage further destabilization of tundra ecosystems.

Which of the statements given above are correct?

- (a) 2, 3 and 4 only
- (b) 1, 2 and 3 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

Q67. With reference to Kelps, consider the following statements:

1. Kelps are large green algae seaweeds that can survive freezing temperatures and even grow under ice.
2. Kelps are a rich source of Iron and Iodine.
3. Kelp forests can help protect coastline erosion by decreasing the eroding power of waves during storms.

Choose the correct statements:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q68. The India State of Forest Report (ISFR) 2021 has been released by the Ministry of Environment, Forests and Climate Change (MoEFCC), in context of this consider the following statements:

1. The report has included first time a chapter on the forest Cover assessment in Tiger reserves and Tiger corridor areas of the country.
2. All tree patches that have canopy density of more than 10% and area of one hectare or more in size are included in Forest cover.
3. Indian Institute of Forest Management is the nodal agency for preparing State of Forest Report.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) All of the above

Answer Key

Q.1) Ans: D	Q.13) Ans: C	Q.25) Ans: B	Q.37) Ans: D	Q.49) Ans: A	Q.61) Ans: C
Q.2) Ans: A	Q.14) Ans: A	Q.26) Ans: A	Q.38) Ans: B	Q.50) Ans: C	Q.62) Ans: D
Q.3) Ans: B	Q.15) Ans: A	Q.27) Ans: B	Q.39) Ans: B	Q.51) Ans: C	Q.63) Ans: B
Q.4) Ans: C	Q.16) Ans: A	Q.28) Ans: C	Q.40) Ans: C	Q.52) Ans: A	Q.64) Ans: B
Q.5) Ans: C	Q.17) Ans: C	Q.29) Ans: B	Q.41) Ans: D	Q.53) Ans: D	Q.65) Ans: A
Q.6) Ans: B	Q.18) Ans: C	Q.30) Ans: B	Q.42) Ans: A	Q.54) Ans: A	Q.66) Ans: A
Q.7) Ans: B	Q.19) Ans: D	Q.31) Ans: C	Q.43) Ans: A	Q.55) Ans: C	Q.67) Ans: B
Q.8) Ans: A	Q.20) Ans: B	Q.32) Ans: D	Q.44) Ans: C	Q.56) Ans: B	Q.68) Ans: A
Q.9) Ans: C	Q.21) Ans: D	Q.33) Ans: A	Q.45) Ans: C	Q.57) Ans: C	
Q.10) Ans: A	Q.22) Ans: C	Q.34) Ans: C	Q.46) Ans: B	Q.58) Ans: C	
Q.11) Ans: C	Q.23) Ans: C	Q.35) Ans: A	Q.47) Ans: C	Q.59) Ans: D	
Q.12) Ans: D	Q.24) Ans: B	Q.36) Ans: C	Q.48) Ans: B	Q.60) Ans: C	

Environment pollution

Q1. Consider the following factors of environmental pollution:

1. Radioactivity
2. Heavy metal salts
3. Glass
4. Pollen from plants
5. Stratospheric ozone

Which of the above factors contribute to environmental pollution?

- (a) 1, 3, 4, and 5
- (b) 2, 3, and 4
- (c) 1, 2, 3, and 4
- (d) 1, 2, 3, 4, and 5

Q2. In the context of air pollution, which of the statements given below is/are incorrect?

1. Aluminum silicate is a major component of fly ash.
2. Replacing cement with fly ash aggravates the pollution levels.
3. Fly ash largely hampers the productivity of the crops.

Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3

Q3. In the context of the coal used by the Thermal Power Plants (TPP), consider the following statements:

1. It is mandatory for a TPP to use coal with less than 34% of its ash content.
2. Higher ash content in coal increases the per unit generation of power.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q4. Consider the following pairs:

Technology	Main targeted pollutant
1. Flue gas desulphurization	Hydrogen sulfide
2. Selective catalytic reduction	Ammonia
3. Electrostatic precipitator	Smoke
4. Scrubbers	Dust and gas particles

Which of the statements given above is/are correctly matched?

- (a) 1 and 4 only
- (b) 1 and 3 only
- (c) 3 and 4 only
- (d) 2, 3, and 4 only

Q5. Consider the following statements regarding ammonia pollution:

1. Higher temperature is responsible for the reduction in ammonia pollution.
2. The Indus and the Indo Gangetic plains have recently been identified as the hotspot of ammonia pollution.
3. Increased precipitation aggravates the level of ammonia pollution in the environment.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only

(d) 1, 2, and 3

Q6. Consider the following statements regarding Dissolved Oxygen (DO):

1. Decomposition of organic matter increases the Dissolved Oxygen (DO) of the water.
2. Chemical Oxygen Demand (COD) lowers the concentration of DO in water.
3. The concentration of DO is varied by respiration and photosynthesis only.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 1 and 2 only
- (c) 2 only
- (d) 1 only

Q7. Consider the following factors regarding burning of stubble:

1. Use of combine harvesters
2. Paddy transplantation
3. Intensification of crops
4. Short duration rice cultivation
5. Crop diversification

Which of the factors mentioned above are responsible for the burning of stubble by the farmers?

- (a) 1, 2, 3, and 5 only
- (b) 1 and 3 only
- (c) 1, 3, 4, and 5 only
- (d) 2, 3, and 5 only

Q8. Consider the following statements with respect to Bioremediation:

1. Bioaugmentation is an ex-situ bioremediation technique that enhances the degradation process.
2. Bioremediation works efficiently on all kinds of degradable and non-degradable wastes.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q9. Consider the following statements:

1. Instances of acid rain are not found in the mountainous regions with thin soils.
2. To qualify for acid rain, the pH value of the rainwater must be less than 2.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q10. In the context of natural and anthropogenically acidified lakes, consider the following statements:

1. The concentration of dissolved carbon is high in the former while low in the latter.
2. The transparency of water is lower in case of naturally acidified lakes while high in case of the latter.
3. Both are very well buffered and are abundant with different species and rich aquatic life.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3

Q11. Consider the following statements:

1. Parthenocarpic fruits are produced without the formation of seeds.

2. Both alcoholic and non-alcoholic beverages compulsorily contain at least one hydroxyl group.

Which of the statements given above are correct?

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

Q12. Consider the following pollutants:

1. Sulphur dioxide
2. Lead
3. Aluminum
4. Phosphoric acid
5. Methyl Mercury
6. Cadmium

Which of the pollutants given above are triggered with the acid rain and are *not* directly associated with it?

- (a) 1, 2, 4, and 5 only
 (b) 2, 3, 5, and 6 only
 (c) 1, 3, 4, and 6 only
 (d) 2, 4, 5, and 6 only

Q13. Which of the following are the likely consequences for the aquatic organisms if the increase in the temperature of the water body?

1. Increased enzyme activity.
2. Increased photosynthetic activity.
3. Increased metabolic rate of organisms.
4. Increase in the population of Blue green algae.
5. Increased migration of organisms.

Select the correct answer using the codes given below:

- (a) 1, 3, and 5 only
 (b) 1, 2, 3, 4, and 5

- (c) 3, 4, and 5 only
 (d) 1, 2, and 4 only

Q14. Consider the following statements regarding plastic pollution:

1. The Ultraviolet light induced degradation of plastics is more pronounced on land than in marine environments.
2. Plastics are traditionally considered to be bio-inert with no toxic effect on aquatic life directly.

Which of the statements given above is/are correct?

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

Q15. Consider the following pairs:

Waste treatment process	Feature
1. Sanitary landfills	Leaching
2. Vermiculture	Fungi and bacteria
3. Pyrolysis	Burning without oxygen
4. Incineration	Burning under controlled oxygen

Which of the pairs given above are *incorrectly* matched?

- (a) 1, 2, and 3 only
 (b) 1, 2, and 4 only
 (c) 1, 3, and 4 only
 (d) 2, 3, and 4 only

Q16. Which of the statements given below is least appropriate in relation to composting?

- (a) Composting is considered good for the growth of plants.

- (b) Composting is the degradation of organic wastes carried out by microorganisms.
- (c) Composting is done either in the absence of oxygen or under controlled levels of oxygen.
- (d) The moisture retaining capability of the soil is enhanced post the composting process.

Q17. Consider the following statements regarding radiations:

1. Gamma radiation is regarded as the most severe to human health.
2. Ultraviolet radiations are an example of short-wave nonionizing radiations.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q18. Which of the following are an example of the Waste to Wealth systems?

1. Mixing of ash residue in Plasma Arc gasification with cement.
2. Pyrolysis oil obtained from the heating of the polymers.
3. Production of syngas in the biogas digester.

Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3

Q19. Consider the following statements regarding Persistent Organic Pollutants (POPs):

1. Organochlorines are an example of Persistent Organic Pollutants (POPs).
2. The regulation of POPs in India is done under the Environment (Protection) Act, 1986.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q20. Consider the following statements regarding Smog:

1. Photochemical smog is created when sunlight reacts with nitrogen oxides and at least one volatile organic compound (VOC) in the atmosphere
2. One of the primary components of photochemical smog is ozone.
3. Sulfurous smog results from a high concentration of sulfur oxides in the air, is aggravated by dampness and a high concentration of suspended particulate matter in the air.

Which of the statements given above is/are incorrect?

- (a) 3 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) None of the above

Q21. Consider the following statements regarding plastic pollution:

1. Biodegradable plastics are plastics degraded by microorganisms into water, carbon dioxide or methane and biomass under specified conditions.
2. Biodegradable plastics are less energy intensive and cheaper to produce.
3. India is not a signatory to MARPOL convention (International Convention for the Prevention of Pollution from Ships, 1978).

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 1 and 2 only

- (c) 1 only
 (d) 1, 2 and 3

Q22. Consider the following statements regarding the radioactive pollution of water:

1. Percolation of naturally occurring radioactive materials found in the earth's crust, from the soil sediments to the aquifer causes groundwater contamination.
2. Radioactive contamination is more prevalent in surface water as compared to groundwater.
3. Uranium, thorium, actinium and Radium are radiotoxic elements that contaminate water resources.
4. Oceans and seas are the natural repositories of naturally occurring uranium.

Which of the statements given above are correct?

- (a) 1, 2 and 4 only
 (b) 1, 3 and 4 only
 (c) 2, 3 and 4 only
 (d) 1, 2, 3 and 4

Q23. Consider the following statements with reference to electronic-waste:

1. India's first e-waste clinic has been set-up in Indore, Madhya Pradesh.
2. It can be categorized in two broad categories namely Information technology and communication equipment and consumer electrical and electronics.
3. The Basel convention deals with the issue of e-waste.

Which of the statements given above are correct?

- (a) 1 and 3 only
 (b) 2 and 3 only
 (c) 1 and 2 only
 (d) All of the above

Q24. Consider the following statements with references to Radioactive radiation pollution:

1. Non ionizing radiation affects only those components which absorb them and have low penetrability.
2. Ionizing radiation usually has high penetration power and can cause breakage of macromolecules.

Which of the statements given above is/are correct?

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

Q25. Consider the following statements regarding the mercury pollution:

1. Minamata Convention on Mercury, adopted in 2013, is the world's first legally binding treaty to protect human health and environment from adverse effects of mercury.
2. India is the largest user of mercury in world which has toxic effects on nervous, digestive, and immune systems, lungs, kidneys, skin and eyes.
3. People are mainly exposed to methylmercury, an organic compound, when they eat fish and shellfish that contain the compound.
4. Ethyl mercury is used as a preservative in some vaccines and does not pose a health risk.

Which of the statements given above are correct?

- (a) 1, 3 and 4 only
 (b) 2, 3 and 4 only
 (c) 1 and 3 only
 (d) 1, 2, 3 and 4

Q26. Consider the following statements with reference to water pollution:

1. Phosphates can be used to treat a variety of water pollution problems.
2. Nonylphenol, a pollution substance found in detergents, is known to enter water bodies and the food chains.
3. Eutrophication deprives the water of available oxygen, causing the death of other organisms.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) All of the above

Q27. Consider the following statements regarding National Air Quality Index NAQI:

1. National Air Quality Index is tool that uses numbers to simplify air quality data of a city by classifying pollution levels into 6 categories
2. It has been developed by the Ministry of Urban and housing affairs in consultation with IIT-Kanpur and an expert group comprising medical and air-quality professionals.
3. The measurement of air quality is based on eight pollutants, including carbon dioxide and ozone

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q28. Consider the following materials:

1. Metals
2. Paper

3. Photographic Materials
4. Rubber
5. Ceramics and glass
6. Paints and organic coatings

Which of the above materials are damaged by acid rain?

- (a) 1, 2, 3 and 4 only
- (b) 2, 3, 4 and 6 only
- (c) 1, 3, 4 and 5 only
- (d) All of the above

Q29. Consider the following statements regarding environmental phenomenon:

1. Thermal pollution is caused by either dumping hot water from factories and power plants or due to soil erosion.
2. The eastern Indian Ocean region experienced the greatest increase in marine heatwaves as compared to the Arabian Sea.
3. Marine heatwaves lead to coral bleaching, seagrass destruction, and loss of kelp forests, affecting the fisheries sector adversely

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q30. Consider the following statements with reference to electronic waste:

1. It only includes the discarded and end-of-life electronic products used in Information and Communication Technology.
2. The E-Waste (Management) Rules, 2016 extend the responsibility to producers to manage a system of e-waste collection, storage, transportation, environmentally sound dismantling and recycling through Extended Producer Responsibility (EPR) authorisation.

3. The report titled 'Waste-Wise Cities: Best Practices in Municipal Solid Waste Management' was published by Central Control Pollution Board and Centre for Science and Environment

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q31. Consider the following statements with reference to Mercury Pollution:

1. Mercury can be toxic and can cause damage to the nervous and immune system.
2. Recently a binding agreement was signed at a meeting of the Conference of Parties to the Minamata Convention on Mercury (COP-4.2) to combat illegal trade in mercury.
3. The Minamata Convention on Mercury is a multilateral environmental agreement that addresses specific human activities which are contributing to widespread mercury pollution.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q32. Which of the following are the causes for deforestation?

1. Slash and burn cultivation.
2. Mining
3. Hydroelectric project
4. Community Forestry
5. Defence and communication activities

Select the correct answer using the code given below:

- (a) 2, 3 and 5 only
- (b) 1, 2, 3 and 4 only
- (c) 1, 2, 3 and 5 only
- (d) 1, 3 and 4 only

Q33. Which of the following are the effects of acid rain on the environment?

1. Acid Rains add minerals and nutrients to the soil.
2. Acid Rains adversely impact open historical heritage and monuments.
3. Acid Rains can also impact coral vegetation and marine ecosystems.
4. Acid Rain can cause the ocean's pH to rise.

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 2 and 3 only
- (c) 1, 3 and 4 only
- (d) 1, 2, 3 and 4

Q34. Consider the following statements regarding forest fire in India:

1. Fires that burn organic material in the soil are called ground fires and they burn slowly, under vegetation.
2. Crown fires burn quickly from one tree top to another and have huge flames with intense heat and are rare in India.
3. Dry pine leaves are highly inflammable and significantly increase the fuel load and are most prone to fires.
4. According to the Forest Survey of India (FSI), based on the forest inventory records, 30 % of India's forests are prone to occasional fires.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

Q35. Consider the following statements regarding pollutants:

1. Biomagnification refers to increase in concentration of a pollutant from the environment to the first organism in a food chain.
2. Bioaccumulation refers to the tendency of pollutants to concentrate as they move from one trophic level to the next.
3. Heavy metals pose a serious threat to humans and the environment because of its toxicity, bioaccumulation and their ability to affect the biodegradability of organic pollutants.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q36. Consider the following statements regarding groundwater contamination:

1. In India the states of West Bengal, Jharkhand, Bihar, Uttar Pradesh, Assam, Manipur, and Chhattisgarh are most affected by arsenic contamination of groundwater.
2. High Nitrate concentration in ground water in India has been found in almost all hydrogeological formations.
3. Central Pollution Control Board has prescribed limits for contaminants in drinking water.
4. A Report titled 'Seeing the Invisible: A Strategic Report on Groundwater Quality' was released by World Health Organisation

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

Q37. Consider the following statements regarding the circulatory system of the plastic:

1. India has become the third Asian country to develop a plastics pact for building a circular system for plastics.
2. Circular economy is a model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible.
3. The India Plastics Pact (IPP) was launched as a collaboration between World Wide Fund for Nature-India (WWF) and the Confederation of Indian Industry (CII).

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 2 only

Q38. Consider the following statements regarding the environmental impact of sand mining?

1. Sand acts as a natural carpet, removal of the layer leads to the downstream erosion.
2. Sand mining leads to the shortening of the mouth of the river.
3. The local water table level decreases because of sand mining.
4. It affects the intertidal area and creates the imminent danger of saline water ingress in the freshwater.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 1, 3 and 4 only

(d) 1, 2, 3 and 4

Q39. Consider the following statements regarding deforestation issue and India's initiatives:

1. Green India Mission was launched to combat deforestation as part of the National Action Plan on Climate Change (NAPCC).
2. India under the Bonn challenge took a pledge to restore 26 million hectares of degraded and deforested land by 2030.
3. India has signed the COP26 pledge, the Glasgow Leaders Declaration on Forest and Land Use to stop deforestation by 2030.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q40. Which of the following statements is/are correct regarding Desertification?

1. The desertification of North-western India has increased after the green revolution of the 1960s.
2. The southern states of India have not witnessed any significant increase in desertification in the recent periods.
3. India has hosted the conference of parties of the UNCCD only once since its inception.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1 and 3 only

Q41. With reference to Ocean Acidification, consider the following statements:

1. The dissolved Carbon Dioxide in seawater forms carbonic acid which increases the ocean's pH
2. It is influenced by acid rain and eutrophication.
3. It reduces the concentration of carbonate, which is important for building blocks in seawater.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q42. Consider the following statements regarding Nitrogen pollution:

1. Nitrogen as a dominant gas in the atmosphere is inert but when it is released as part of compounds from agriculture, sewage and biological waste, it is considered reactive.
2. Nitrous oxide is less potent than carbon dioxide at heating the atmosphere.
3. Gases such as ammonia and nitrogen dioxide contribute to poor air quality and can aggravate respiratory and heart conditions.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q43. Which of the following factors contribute to Eutrophication?

1. Excessive use of fertilisers
2. Untreated sewage
3. Detergents containing phosphorus

4. Discharge of industrial waste
5. Release of Carbon dioxide in air

Select the correct answer using the code given below.

- (a) 2, 3 and 5 only
- (b) 1, 2 and 4 only
- (c) 1, 4 and 5 only
- (d) 1, 2, 3 and 4

Q44. Consider the following statements regarding the banning of Persistent Organic Pollutants (POPs) in India:

1. The Air (Prevention and Control of Pollution) Act of 1981's regulations prohibit the POPs listed in the Stockholm Convention.
2. The Union Ministers for External Affairs (MEA) and Environment, Forest, and Climate Change have been given authority by the Cabinet to ratify chemicals under the Stockholm Convention (MEFCC).
3. The process will enable India access to Global Environment Facility (GEF) financial resources for updating the National Implementation Plan (NIP).

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1 and 3 only

Q45. Consider the following statement about the classification of pollutants:

1. Qualitative pollutants are substances which are not normally present in the environment and are added by human beings
2. Quantitative pollutants substances which are already present in the environment.
3. Pollution and health metrics: global regional and country analysis report is released by global alliance on health and pollution.

Which of the above statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q46. Consider the following statements about the Thermal Power Plants (TPPs):

1. Thermal power plants (TPP) are allowed to use coal with high ash content.
2. Coal based thermal power plants are responsible for 70% of total freshwater withdrawal by all industries.
3. New regulations in 2019 for TPPs make it compulsory to transport coal in covered vehicles.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 only
- (d) Neither 1, 2 and 3

Q47. Which of the following are the effects of ammonia pollution?

1. Eutrophication and acidification.
2. Formation of haze-like conditions.
3. Nitrification and denitrification.
4. Disruption of cell membranes.
5. Diseases like pneumonia and asthma.

Which of the statements given above are correct?

- (a) 1, 3, 4 and 5
- (b) 1, 2, 3 and 5
- (c) 1, 2, 3 and 4
- (d) 1, 2, 3, 4 and 5

Q48. With reference to water pollution sources consider the following statements:

1. When pollutants are discharged from a specific location, they are called nonpoint source.
2. Pollutants discharged from diffuse sources are called point source.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 both
- (d) Neither 1 and 2

Q49. Consider the following measures to address water pollution:

1. Riparian buffers
2. Water hyacinth
3. Oil Zappers
4. Eucalyptus trees

In the context of measures, which of the above help/helps in reducing water pollution?

- (a) 1, 2 and 3 only
- (b) 3 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

Q50. Consider the following about in-situ bioremediation process:

1. Bioventing
2. Biopiles
3. Biosparging
4. Composting

Which of the above techniques are under in situ bioremediation process?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 3 and 4 only

- (d) 1, 2 and 3 only

Q51. Mycoremediation is related to which of the following given below:

- (a) It is a measure to prevent water pollution.
- (b) It is a type of bioremediation in which fungi is used.
- (c) It is the hybrid of land farming and composting in protecting the contaminated site.
- (d) None of the above.

Answer Key

Q.1)	Ans: C	Q.18)	Ans: D	Q.35)	Ans: C
Q.2)	Ans: B	Q.19)	Ans: C	Q.36)	Ans: A
Q.3)	Ans: D	Q.20)	Ans: D	Q.37)	Ans: A
Q.4)	Ans: C	Q.21)	Ans: C	Q.38)	Ans: C
Q.5)	Ans: D	Q.22)	Ans: B	Q.39)	Ans: B
Q.6)	Ans: C	Q.23)	Ans: B	Q.40)	Ans: D
Q.7)	Ans: B	Q.24)	Ans: C	Q.41)	Ans: B
Q.8)	Ans: D	Q.25)	Ans: A	Q.42)	Ans: C
Q.9)	Ans: D	Q.26)	Ans: D	Q.43)	Ans: D
Q.10)	Ans: A	Q.27)	Ans: A	Q.44)	Ans: B
Q.11)	Ans: A	Q.28)	Ans: D	Q.45)	Ans: D
Q.12)	Ans: B	Q.29)	Ans: B	Q.46)	Ans: D
Q.13)	Ans: C	Q.30)	Ans: B	Q.47)	Ans: D
Q.14)	Ans: A	Q.31)	Ans: C	Q.48)	Ans: D
Q.15)	Ans: B	Q.32)	Ans: C	Q.49)	Ans: D
Q.16)	Ans: C	Q.33)	Ans: B	Q.50)	Ans: A
Q.17)	Ans: C	Q.34)	Ans: A	Q.51)	Ans: B

Renewable energy

Q1. Which of the statements given below is correct regarding the Luminescent Solar Concentrators?

1. It can collect direct and diffused solar lights and works even on cloudy days.
2. It is made using polymers and coated with organic dyes and quantum dots.
3. It is cheaper and generates greater amounts of solar power than solar cells.

Select the correct answer using the codes given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3

Q2. Consider the following statements regarding the onshore and offshore wind farms:

1. The onshore wind farms are more cost effective as compared to the offshore wind farms.
2. Operation and maintenance of the onshore farms is easier compared to the offshore ones.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. Consider the following factors regarding wind power:

1. Using turbines with shorter diameters.
2. Installation of wind turbines in higher altitude regions.
3. Stronger speed of the winds.
4. Denser surrounding air.

Which of the factors above are responsible for enhancing the wind power generated?

- (a) 1 and 2 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 3 only
- (d) 1, 3 and 4 only

Q4. Consider the following statements regarding Hydro Power projects and Biomass:

1. The run of the river projects is effective in dealing with remote energy needs.
2. Biomass burning releases the same amount of carbon dioxide as that of fossil fuels.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q5. Consider the following statements regarding energy generation:

1. Methane rich biogas is produced in anaerobic digesters.
2. Partial combustion of organic matter in limited oxygen is referred to as gasification.
3. Fuel cell powered vehicles cause pollution with high energy conversion efficiency.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, and 3

Q6. Which of the provisions given below form part of the PM-KUSUM?

- 10 GW of solar or any renewable energy power plant.
- Solarization of grid connected solar pumps.
- Solar projects are less than 500 kW for the smaller farmers.
- Solar power plants should not be established on marshy or pasture lands.

Select the correct answer using the codes given below:

- 1, 2, and 4 only
- 1, 2, and 3 only
- 2, 3, and 4 only
- 1, 3, and 4 only

Q7. Consider the following regarding Hydrogen Fuel cells:

- A constant source for charging is required.
- Cost efficient due to lower cost of the catalysts.
- Generates electricity by way of a chemical reaction.

Which of the statements given above are incorrect?

- 1 and 2 only
- 2 and 3 only
- 1 and 3 only
- 1, 2, and 3

Q8. Consider the following statements regarding renewable energy in India:

- Setting up of Compressed Biogas Plants is an important part of SATAT.
- One sun, one World, One Grid focused on European and American states in the first phase.

Which of the statements given above is/are correct?

- 1 only
- 2 only

- Both 1 and 2
- Neither 1 nor 2

Q9. Consider the following about Electric Vehicles:

- Longer charging time.
- Reduced noise and cheaper maintenance.
- Higher cost of the vehicles.
- Short distance travels.

Which of the above are hindrances in the adoption of Electric Vehicles in India?

- 1, 3, and 4 only
- 1 and 3 only
- 2, 3, and 4 only
- 2 and 4 only

Q10. Consider the following statements regarding Renewable Energy:

- The conventional resources are renewable and almost inexhaustible.
- Biomass can be converted directly into liquid fuels, called "biofuels," to help meet transportation fuel needs.
- The Government of India has a target of renewable energy capacity to 175 GW by the year 2030 which includes 100 GW from solar power.

Which of the statements given above is/are incorrect?

- 1 and 2 only
- 2 only
- 1 and 3 only
- None of the above

Q11. Match the following hydroelectric project and rivers:

(i) Luhri	A) tributary of Jhelum
(ii) Sawra-Kuddu	B) Chenab

(iii) Rattle	C) tributary of Yamuna
(iv) Kishanganga	D) Sutlej

Select the correct code:

- (a) i-D, ii-C, iii-B, iv-A
- (b) i-B, ii-D, iii-A, iv-C
- (c) i-D, ii-B, iii-A, iv-C
- (d) i-B, ii-C, iii-D, iv-A

Q12. Consider the following statements regarding promotion of Solar Energy:

- The Ministry of New and Renewable Energy (MNRE) have initiated schemes and incentives-like subsidy, easy loan, concessional duty on raw material imports to encourage and use of solar energy systems.
- International Solar Alliance is the first organization in the world, which will have a sole focus on solar energy and its secretariat is in India.
- International Renewable Energy Agency is the nodal agency for implementing 'One Sun One World One Grid' (OSOWOG) plan and releases Ease of Doing Solar Report.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q13. Consider the following statements in context of wind energy in India:

- The Ministry of New & Renewable Energy (MNRE) has been authorized as the Nodal Ministry for use of offshore areas within the exclusive economic zones (EEZ) of the country under National Offshore Wind Energy Policy.

- Onshore wind farms operate on large bodies of water and are more expensive than offshore wind farms.
- India currently has the fourth highest wind installed capacity in the world and Gujarat has highest Wind Energy potential currently in India.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q14. Consider the following statements regarding Fuel Cells:

- Fuel cells are electrochemical devices that convert the electric energy into chemical energy and Hydrogen is the most suited fuel for such cells.
- The Ministry of Science and Technology has launched the National Green Hydrogen Mission to cut down carbon emissions and to scale up Green Hydrogen production.
- They can be widely used in electric vehicles due to high energy conversion efficiency, and near-zero pollution.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q15. It is a device that uses a thin sheet of material to trap solar radiation over a large area, before directing the energy to cells mounted on the thin edges of the material layer. It can collect both direct and diffuse solar radiation. Therefore, tracking of the sun is not required. They are excellent candidates for building integrated

photovoltaics and for the cloudier northern climates.

Identify the device from the options given below:

- (a) Photovoltaic Cells
- (b) Solar Cells
- (c) Electrochemical cell
- (d) Luminescent Solar Concentrator

Q16. Which of the following are the Potential sites for generation of Geothermal Energy?

- 1. Jalgaon
- 2. Kashmir Valley
- 3. Puga Valley
- 4. Tattapani

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 2, 3 and 4 only

Q17. With reference to Solar Energy, consider the following statements:

- 1. The International Solar Alliance was launched at the UN Climate Change Conference in Paris (CoP22) as a special platform to address the special energy needs of its member countries.
- 2. The proposed solar-biomass hybrid system is based on distributed multi-generation technology that integrates photovoltaic-thermal and biomass power sources.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q18. Consider the following statements regarding Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahaabhiyan (PM-KUSUM) scheme:

- 1. PM-KUSUM Scheme which aims at furthering the production of solar power in India and giving benefits of solar farming to farmers will be implemented by Ministry of Environment, Forest and Climate Change.
- 2. Under this scheme the government will provide a 60% subsidy to a farmer for setting up of pump sets and tube wells on their land.
- 3. This scheme aims to achieve 1000 GW of Solar Power Generation by 2022 through its components.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q19. Consider the following statements regarding Onshore and Offshore wind energy:

- 1. Onshore wind energy is the energy generated from farms that are located over shallow open water, usually in the ocean, where there are higher wind speeds.
- 2. Offshore wind energy, is the power that's generated by wind turbines located on land driven by the natural movement of the air.
- 3. Businesses engaged in the procurement and installation of Renewable Energy goods and services shall be eligible for claim of Input Tax Credit (ITC).

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q20. Consider the following statements regarding Renewable Energy Certificate:

1. Renewable Energy Certificate is a market-based instrument where the owner of the REC can legally claim to have purchased renewable energy.
2. One Renewable Energy Certificate is treated as equivalent to 100 MWh.
3. The distribution companies, Open Access consumer, Captive Power Plants are not eligible for purchasing the Renewable Energy Certificate.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q21. Consider the following statements regarding solar energy:

1. Solar Photovoltaics uses sunlight to heat a fluid that can be used to spin a turbine or power an engine to generate electricity.
2. Concentrating Solar Power (CSP) in which a photon impacting a surface made of a special material generates the release of an electron.
3. Solar Risk Mitigation Initiative (SRMI) is developed by the World Bank-Energy Sector Management Assistance Program (WB-ESMAP)

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 1, 2 and 3

Q22. Consider the following statements regarding Renewable energy:

1. As per updated Nationally Determined Contributions India had committed to achieve 60% cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030.
2. Substantial increase in the share of renewable energy in the global energy mix is a target set under SDG number 5.
3. Renewable Energy Market Update Report is published by International Renewable Energy Agency.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q23. With reference to the Ocean Thermal Energy, consider the following statements:

1. Ocean Thermal Energy Conversion (OTEC) systems use the temperature differences between the surface of the ocean and the depths of about 1000 m to operate a heat engine, which produces electric power.
2. Greater the temperature difference, the greater the efficiency of the system.
3. At the Equator, the temperature gradient is highest.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q24. Consider the following statements with reference to Hydro Power:

1. The turbines convert potential energy of the water into mechanical energy to drive the generator.

2. Generally, there are three types of hydropower facilities namely impoundment, diversion, and pumped storage.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q25. Consider the following statements regarding National Electric Mobility Mission Plan (NEMMP) 2020:

1. It aims to achieve national fuel security by promoting hybrid and electric vehicles in the country.
2. This mission is Implemented by the Ministry of Road Transport and Highways.
3. Under NEMMP 2020, the Government has launched the FAME India scheme to mitigate the adverse impact of vehicles on the environment and growth of domestic manufacturing capabilities.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q26. Consider the following statements regarding solar-power:

1. Rajasthan has the largest solar park in the world.
2. Assam has India's first fully solar-powered railway station.
3. Goa has the largest floating solar photovoltaic project in India.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q27. With reference to the National Solar Mission, consider the following statements:

1. It had set a target of 100 GW of grid-connected solar power by 2030.
2. Under Rooftop Solar Programme Phase-II, 4000 MW rooftop solar (RTS) capacity addition is targeted in the residential sector through Central Financial Assistance (CFA).

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q28. Consider the following statements regarding 'Green Grids Initiative' launched by India during COP-26 in Glasgow:

1. The idea of Green Grids initiative was first time pitched by India and France during the launch of the International Solar Alliance.
2. The Green grid initiative has a target to create an interconnected power grid with all neighbouring countries of India.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q29. With reference to Renewable Energy, consider the following statements:

1. The renewable energy capacity in India is currently 1000 Gigawatts.

2. The UJALA scheme aims to promote solar power in the western part of the country.
3. Smart grids have self-healing capabilities and enable electricity customers to become active participants.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Answer Key			
Q.1)	Ans: A	Q.17)	Ans: B
Q.2)	Ans: C	Q.18)	Ans: C
Q.3)	Ans: B	Q.19)	Ans: C
Q.4)	Ans: C	Q.20)	Ans: A
Q.5)	Ans: A	Q.21)	Ans: C
Q.6)	Ans: B	Q.22)	Ans: D
Q.7)	Ans: A	Q.23)	Ans: A
Q.8)	Ans: A	Q.24)	Ans: B
Q.9)	Ans: A	Q.25)	Ans: B
Q.10)	Ans: C	Q.26)	Ans: A
Q.11)	Ans: A	Q.27)	Ans: B
Q.12)	Ans: A	Q.28)	Ans: C
Q.13)	Ans: C	Q.29)	Ans: A
Q.14)	Ans: A		
Q.15)	Ans: D		
Q.16)	Ans: B		

Environmental issues

Q1. Consider the following statements with reference to the carbon sequestration:

1. It is the technology designed to tackle global warming by capturing CO₂ and storing it before it is released into the atmosphere.
2. Depleted oil reserves, unmineable mines are examples of natural carbon sinks.
3. Carbon dioxide can dissolve in liquid like water but not in oil.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) All of the above

Q2. With reference to National Clean Air Programme (NCAP) Consider the following statements:

1. It aims to achieve the 20% to 30% reduction in Particulate Matter concentration by 2034.
2. It is prepared by the Ministry of Housing and Urban affairs to reduce PM concentration in the selected smart cities.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. Considered the following statements regarding dissolved oxygen:

- 1) Biological Oxygen Demand (BOD) is a better indicator to measure the concentration of required oxygen as compared to Chemical Oxygen Demand (COD).
- 2) COD measures the concentration of oxygen required for the oxidation of non-

biodegradable matters while BOD measures the same for the degradable matter.

- 3) The dissolved oxygen is inversely proportional to the dissolved organic wastes in the water body.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1, 2 and 3
- (d) None of the above

Q4. Which of the following statements are incorrect regarding the Solid Wastes Management Rules, 2016?

- (a) Waste generators are to segregate wastes into three categories: biodegradable, non-biodegradable, and domestic hazardous wastes.
- (b) Local authorities and village panchayats are to make suitable waste management plans in accordance with the state government policy.
- (c) All manufacturers of disposable products are to provide financial assistance to the local authorities for the setting up of waste disposal systems.
- (d) These rules are only applicable to the plains and exempt the hilly and the north eastern states.

Q5. Consider the following statements regarding Bioremediation:

1. It uses microorganisms or their enzymes to break down pollutants from the environment.
2. Marine Microbes Wheat Bran is a hydrocarbon degrading bacterium with the capacity to clear oil spills.
3. These microbes do not have a metabolism of their own and rely on the hydrocarbon waste for energy.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 1 and 3 only
- (d) 2 and 3 only

Q6. Consider the following statements regarding genetically modified organisms:

1. Rubber Board research farm has the world's second genetically modified (GM) rubber plant tailored for the climatic conditions in North-eastern India after China.
2. GMOs are living organisms whose genetic material has been artificially manipulated in a laboratory through genetic engineering.
3. Clearance of Genetic Engineering Appraisal Committee (GEAC) is not mandatory for the environmental release of Genetically Modified (GM) crops.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 2 only

Q7. Which of the following are the environmental consequences of Sand Mining in India?

1. Changing the course of the river and increased in river erosion.
2. Depletion of groundwater tables.
3. Threat to agriculture and damage to coastal ecosystem.
4. Adversely impacting the habitat of microorganisms.

Select the correct answer using the codes given below:

- (a) 1, 2 and 3 only
- (b) 1 and 3 only

- (c) 2 and 4 only
- (d) All of the above

Q8. With respect to Sand mining, Consider the following statement:

1. Sand provides a buffer against strong tidal waves and storms and is used for making glass.
2. Due to sand mining, there is revenue forfeiture to the exchequer.
3. Sand mining results in an increase of groundwater and enriches the coastal ecosystem.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q9. Which of the following are the impacts of radiation from mobile phone towers?

1. Magnetic field from the towers disturbs birds' navigation skills hence when birds are exposed to Electro-magnetic Radiation (EMR) they disorient and begin to fly in all directions.
2. It causes cellular and psychological changes in human beings.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q10. Consider the following statements regarding landslides:

1. Landslides are a type of mass wasting, which denotes any down-slope movement of soil and rock under the direct influence of gravity.

2. About 12.6% of the land area of our country is prone to landslide hazards.
3. The National Disaster Management Authority and is undertaking a 'National Landslide Susceptibility Mapping' in country

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q11. Consider the following statements with reference to wildlife protection initiatives:

1. Plan Bee, a unique strategy adopted by Northeast Frontier Railway to keep wild elephants away from railway tracks, has won the best innovation award by Indian Railways.
2. Project RE-HAB (Reducing Elephant – Human Attacks using Bees), in which Bee-fences are created by setting up bee boxes in the passageways of elephants to block their entrance to human territories is launched by Indian Railways

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

Q12. As per the State of India's Environment (SoE)-2022 released by Centre for Science and Environment; India recorded 280 heatwave days across 16 states in 2022 — most in the decade. In the context of this, look at the following statements:

1. Low Pressure on the earth's surface causing above air to come down which cause the air warms up and heat waves are generated.
2. Marine heat waves over Indian Ocean are caused due to high solar radiation and strong

winds.

3. New Delhi is the first South Asian city to develop and implement a city-wide heat health adaptation.

Which of the statements given above are incorrect?

- a) 1 and 2 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) All of the above

Q13. Which of the following has/have been labelled as the 'Forever Chemicals'?

- (a) Dichlorodiphenyltrichloroethane (DDT)
- (b) Carbon dioxide
- (c) Chlorofluorocarbons
- (d) Perfluoroalkyl and Polyfluoroalkyl Substances

Q14. Consider the following statements regarding Fly Ash:

1. Fly ash It is a fine powder with substantial amounts of oxides of silica, aluminum and calcium.
2. New Fly Ash Utilization rules aim to achieve 100% utilization of fly ash in 10 years.
3. Under new rules, non-compliant power plants will be imposed with an environmental compensation of Rs 1,000 per tons on unutilized ash during the end of every financial year.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q15. Prakriti is a mascot launched by the Ministry of Environment, Forest & Climate Change to spread greater awareness among masses regarding:

- (a) Natural farming, Organic farming and Organic foods
- (b) Sustainable lifestyle for a better environment
- (c) Conservation of wildlife and endangered species
- (d) Rainwater harvesting

Q16. Consider the following statements regarding Shunya Labelling Programme:

- 1. The Shunya programme for Net Zero Energy Buildings (NZE(B) and Net Positive Energy Buildings (NPE(B) was launched by Ministry of New and Renewable Energy.
- 2. A net-zero energy building is one that relies on renewable sources to produce as much energy as it uses, usually as measured over the course of a year.
- 3. For Shunya labelling, Central Electricity Authority will verify the data and after the assessment, appropriate certificate and plaque will be issued.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 1 only
- (c) 2 only
- (d) 1, 2 and 3

Q17. Consider the following statements with reference to Water Scarcity:

- 1. Due to the Minimum Support Policy, agriculture is resulting in over-exploitation of water.
- 2. Since 2012, the water crisis has consistently been ranked as one of the threats with the highest potential impact as well as likelihood, according to The Global Risk Report.

- 3. As per the report released by the Department of Water Resources in June 2019, India is facing the worst-ever water crisis in history.
- 4. To address the issue, the government is using the Mahatma Gandhi National Rural Employment Guarantee programme.

Which of the statements given above are correct?

- (a) 1, 2 and 4 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) All of the above

Q18. Consider the following statements in context of Green Rating for Integrated Habitat Assessment (GRIHA):

- 1. It is a green building rating system jointly set up by The Energy and Resources Institute (TERI) and the Ministry of New and Renewable Energy (MNRE).
- 2. GRIHA has been developed to rate only the residential buildings in India emphasizing the national environment concerns.
- 3. Global Housing Technology Challenge - India (GHTC- Indi(a) was organised with an aim to identify and mainstream a basket of innovative technologies from across the globe that are sustainable and disaster-resilient.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q19. Consider the following statements with reference to Green Economy:

- 1. It is defined as low carbon, resource-efficient and socially inclusive.

2. It includes a Consumption Linked Incentive for the domestic manufacturing of solar modules.
3. The Provision for Introduction of Sovereign Green Bond was laid down in the Budget 2022.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q20. With reference to Geothermal Energy, consider the following statements:

1. It is the natural heat from the interior of the earth that can be used to generate electricity.
2. In India the southern peninsula is considered a geothermal area.
3. Geothermal energy does not pose any environmental problems.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q21. With reference to Green – Ag Project, consider the following statements:

1. It aims to promote organic farming.
2. It will be implemented initially in five states in the country.
3. It is funded by the Global Environment Facility.
4. It aims to cover two protected areas, the Dampa Tiger Reserve and the Thorangtlang Wildlife Sanctuary.

Which of the above statements are correct?

- (a) 1, 3 and 4 only
- (b) 1, 2 and 4 only

- (c) 2 and 3 only
- (d) 2, 3 and 4 only

Q22. Consider the following statements regarding Ocean Acidification:

1. Ocean acidification is the ongoing increase in the pH of the Earth's oceans, caused by the uptake of carbon dioxide from the atmosphere.
2. For marine ecosystems, ocean acidification presents a two-fold challenge of higher acidity and lower availability of carbonate ions.
3. Algae and seagrasses may benefit from higher CO₂ conditions in the ocean, as they require CO₂ for photosynthesis just like plants on land.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 2 only

Answer Key			
Q.1)	Ans: A	Q.12)	Ans: D
Q.2)	Ans: C	Q.13)	Ans: D
Q.3)	Ans: B	Q.14)	Ans: C
Q.4)	Ans: D	Q.15)	Ans: B
Q.5)	Ans: A	Q.16)	Ans: C
Q.6)	Ans: D	Q.17)	Ans: A
Q.7)	Ans: D	Q.18)	Ans: C
Q.8)	Ans: A	Q.19)	Ans: B
Q.9)	Ans: C	Q.20)	Ans: A
Q.10)	Ans: A	Q.21)	Ans: D
Q.11)	Ans: B	Q.22)	Ans: B

Biodiversity

Q1. If you visit the famous Kaziranga national park, which of the following wildlife you may see?

1. One horned rhino
2. Bengal tiger
3. Golden Langur
4. Swamp deer
5. Feral horse
6. Wild water buffalo

Select the correct answer using the codes given below.

- (a) 1, 2, 3, 4 and 5
- (b) 1, 3, 4, 5 and 6
- (c) 1, 2, 4 and 6
- (d) 1, 2, 3 and 4

Q2. With reference to the Integrated Development of Wildlife Habitats (IDWH), consider the following statements:

1. One of the key components of IDWH is 'recovery programmes for critically endangered species'
2. It supports protected areas such as National Parks, Wildlife Sanctuaries and Tiger Reserves.
3. Recently, caracal was brought under the programme.

Select the *incorrect* statement(s) using the code given below:

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 only
- (d) 1 and 3 only

Q3. Which of the statements correctly explains Umbrella species?

- (a) These species have a strong role in structuring a community.

- (b) These species have a disproportionately large effect on its environment relative to its abundance.
- (c) These species protection indirectly protects many other species that make up the ecological community of its habitat.
- (d) None of the above

Q4. Consider the following plants:

1. Red Vanda
2. Eucalyptus
3. Lady's slipper Orchid
4. Pitcher Plant
5. Mosquito fern

Which among the above are prohibited to cultivate as per schedule 6 of WPA, 1972?

- (a) 1, 3 and 4 only
- (b) 3, 4 and 5 only
- (c) 4 and 5 only
- (d) 1, 2 and 5 only

Q5. With reference to biodiversity, Ball python, Scarlet Macaw, sugar glider (Petaurus breviceps), marmoset are:

- (a) Listed in Appendix I of CITES.
- (b) Exotic animals.
- (c) Migratory species.
- (d) Amphibians.

Q6. Which of the following statements correctly describe one of the features of a 'Stable Community'?

- (a) There is a minimal resistance to occasional disturbances (natural or man-made).
- (b) There is very less population growth over years.
- (c) A climax community is not a stable Community.

- (d) There is not much variation in productivity from year to year.

Q7. With reference to 'Biodiversity Hotspot' consider the following statements:

1. Biodiversity hotspots are a Biogeographic region with a significant amount of reservoir of Biodiversity which are not yet threatened with Destruction.
2. Conservation International sets criteria for determination of a Biodiversity hotspot.
3. Among other criterias, only plant population and not animal population is considered in the criteria for determination of a Biodiversity hotspot.
4. India shares four major biodiversity hotspots.

Which of the above statements are correct?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1 and 4 only

Q8. Consider the following statements:

1. Species evenness represents the numerical equality of species.
2. Species richness is measured for multiple species in a community.
3. Low species evenness with high species richness indicated towards a community where a few species dominate.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1, 2 and 3 only

Q9. Consider the following statements regarding 'Invasive Species' and choose the incorrect Statement:

- (a) An Invasive species can be any kind of living organism that is not native to an ecosystem. And causes harm.
- (b) India's National Biodiversity Target 4 is to identify Invasive alien species.
- (c) Not all Non-Native species are Invasive.
- (d) Ministry of Environment, Forests and climate change issues approvals for the export of wild animals under Biological Diversity Act 2002.

Q10. Match the following statements with suitable options:

1	Alpha Diversity	(i)	It is the species diversity between two adjacent ecosystems and is obtained by comparing the number of species unique to each of the ecosystems.
2	Gamma Diversity	(ii)	It is measured by counting the number of taxa (usually species) within a particular area, community or ecosystem.
3	Beta Diversity	(iii)	It refers to the diversity of the habitats over the total landscape or geographical area.

Choose the correct option:

- (a) 1-i; 2- ii; 3-iii
- (b) 1- ii; 2 - i; 3 - iii
- (c) 1- ii, 2- iii; 3- i
- (d) 1 - iii, 2 - i, 3 - ii

Q11. Consider the following statements:

1. Inbreeding within a population can decrease individual variability.
2. Low genetic variation depresses resistance to diseases.

3. Genetic diversity occurs only between species and not within species.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 1 only
- (d) 1, 2 and 3

Q12. With reference to species diversity, consider the following statements:

- 1. Species diversity of zero means there is only one species present.
- 2. Species diversity usually decreases as we move away from the equator towards the poles.
- 3. Temperate regions, as an exception, harbor more species due to its climate, than polar, tropical and equatorial region.

Which of the above statements is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 3 only
- (d) None of the above

Q13. The species selected to act as an ambassador, icon or symbol for a defined habitat, issue, campaign or environmental cause and by focusing on them, their habitat and other species which share the same habitat can also be conserved

Above statement represents which of the following?

- (a) Umbrella Species
- (b) Iconic Species
- (c) Flagship Species
- (d) Guilds

Q14. Consider the following statements:

- 1. Keystone species perform a check and balance over the population of other species in an ecosystem.
- 2. Keystone Species are also called Ecosystem Engineers.
- 3. Keystone Species have high functional redundancy.

Which of the above statement/s is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q15. Consider the following statements:

- 1. Foundation species are Dominant Consumer in an ecosystem.
- 2. The term foundation species is used for a species with a strong role of restructuring a community
- 3. Foundation species can occupy any trophic level.

Which of the above statement are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q16. The Indian region is composed of two realms. Which of the following realms are *not* part of Indian region?

- 1. Palae arctic Realm
- 2. Neo tropical Realm
- 3. Indo-malayan Realm
- 4. Australian Realm

Select the correct answer using the codes given below:

- (a) 1 and 2
- (b) 2 and 4

(c) 1 and 3

(d) 3 and 4

Q17. Consider the following statements with reference to Bio-geographic zone:

1. Of the ten Biogeographic regions of India, Gangetic plain account for second largest in terms of percentage of total geographical area after Deccan plateau.
2. Andaman and Nicobar Island shows high Endemism in terms of flora and fauna.
3. Wildlife Institute of India (WII) outlined a scheme to divide India into different Biogeographic zones in 1988.

Choose the correct option:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q18. Consider the following statements:

1. Acclimatization is the process in which an individual organism adjusts to changes in its environment.
2. Acclimatization takes a long period of time and takes generations to make genetic adjustments.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q19. Human activity along with Natural cycles over the past few centuries has led to the extinction of several hundred species. In that Reference, consider the following species:

1. Steller's Sea Cow
2. Quagga
3. Caspian tiger

4. Sloth bear

5. Thylacine

6. Bali Tiger

7. Himalayan Quail

Which of the above species are extinct?

- (a) 1, 2, 3, 4, 5 and 7 only
- (b) 1, 2, 4, 6 and 7 only
- (c) 1, 2, 3, 5, 6 and 7 only
- (d) 1, 2, 3, 4 and 6 only

Q20. Consider the following statements regarding biodiversity spots:

1. Biodiversity Hope spots are the world's last refuges where high numbers of threatened species still persist.
2. Biodiversity Cool spots is an area of an ocean that needs special protection because of its wildlife and significant underwater habitats.
3. India doesn't host any hope spots or cool spots.

Choose the correct statement:

- (a) 1 only
- (b) 1 and 2 only
- (c) 1 and 3 only
- (d) None of the above

Q21. Consider the following statements with reference to Protected Areas under Wildlife Protection Act 1972:

1. Both Central as well as state govt can declare an area as National Park or Wildlife Sanctuary.
2. Legislation must be passed with a simple majority to alter boundary of a national park or wildlife sanctuary.
3. National Board for wildlife makes recommendations on setting up & management of protected area.

Which of the following statements are correct?

- (a) 1 and 2 only

- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q22. With reference to National Park and wildlife sanctuary, consider the following statements

1. Grazing activity is not permitted in National Park.
2. Wildlife sanctuary is formed for particular Species whereas National Park may or may not be for particular Species.
3. National Park can be downgraded to wildlife sanctuary.

Which of the above statements is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q23. With reference to community reserve, consider the following statements:

1. It is declared by the central government in consultation with the state government.
2. It is declared in a privately owned land which is not within a national park, sanctuary or conservation reserve.
3. Community Rights of people, such as grazing etc., in such reserve are not affected.

Choose the correct statement:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q24. With reference to Conservation reserve, consider the following statement:

1. It is declared by the State Governments in any area owned by central or State Government.

2. There are limitations on rights of people in these reserves.
3. Tamil Nadu was the first state to get a conservation reserve.
4. Developmental activities like roads or recreational activities can't be taken in Conservation Reserve.

Which of the following statements are correct?

- (a) 1, 2 and 4 only
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) 1 and 4 only

Q25. With reference to Tiger Reserve, consider the following statements:

1. NTCA (National Tiger conservation Authority) declares an area as Tiger reserve.
2. Boundaries of Tiger Reserve can be altered with recommendations of NTCA.
3. NTCA is a statutory body under the enabling provision of Wildlife Protection Act 1972.
4. St. Petersburg Declaration was adopted in 2010 on Tiger conservation.

Which of the following statements are correct?

- (a) 1, 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

Q26. Consider the following statements with reference to Biosphere reserve:

1. The Concept of Biosphere reserves was propounded as part of UNESCO'S MAB (Man and Biosphere) Program in 1975.
2. Buffer zone of Biosphere reserve is used for scientific research.
3. Sand & stone mining are permitted in Biosphere reserve.

Which of the following statements are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q27. Consider the following statement:

1. Sacred groves are a living example of religious or cultural tradition which emphasise on nature's protection.
2. Botanical Garden is an ex-situ conservation whose one of the purposes is to study the introduction and acclimatization process of exotic plants.
3. Zoo is a stationary or mobile establishment where captive animals are kept for exhibition.

Which of the following statements is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q28. With reference to Rhinoceros, consider the following statements:

1. All three species of Rhinoceros, Greater One horned Rhino, Sumatran Rhino and Javan Rhino are listed under Appendix I of CITES and Schedule I of Wildlife Protection Act 1972.
2. Single Horn is found in Both male as well as female Indian Rhino (Greater One horned Rhinoceros).
3. India, Nepal, Bhutan, Malaysia and Indonesia are the five rhino range nations.

Choose the correct statement using the codes give below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) All of the above

Q29. Consider the following statements regarding Indian Biodiversity:

1. The east Himalayas have low rainfall, heavy snowfall as compared to west Himalaya.
2. Sholas are an important component of the Tropical Rainforest of North-East India.
3. Pneumatophores are important components of Mangrove swamps of Sundarbans.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 3 only
- (d) 1, 2 and 3

Q30. Consider the following statements with reference to levels of biodiversity:

1. In genetic diversity, the survival of individuals ensures the survival of the population.
2. Community diversity refers to the variety of living organisms on earth.
3. Species diversity refers to the different types of habitats.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q31. Which of the following are the services provided by the biodiversity?

1. Research, education and monitoring.
2. Pollution breakdown and absorption.
3. Protection of water resources.
4. Recovery from unpredictable events.

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only

- (b) 2, 3 and 4 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

Q32. Invertebrates are those animals which are without backbones, consider the following:

1. Fish
2. Annelids
3. Echinoderms
4. Arachnids
5. Aves

Which of the options given above are invertebrates?

- (a) 1, 3, 4 and 5 only
- (b) 2, 3 and 4 only
- (c) 1, 2, 3 and 5 only
- (d) 2, 3 and 5 only

Q33. Consider the following statements with reference to the Wildlife Protection Act, 1972:

1. This Act provides for the protection of all the species of animals and birds only.
2. There are four types of protected areas as provided under the Act, Sanctuaries, Conservation Reserves, National Parks and Tiger Reserves.
3. The Act provided for the establishment of the National Tiger Conservation Authority to strengthen tiger conservation in India.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 1 and 2 only
- (c) 3 only
- (d) 1, 2 and 3

Q34. Consider the following statements regarding floral and faunal diversity:

1. Protozoa are simple, single-celled prokaryotic microscopic animals that are mostly autotrophic.
2. Crustaceans live mostly in the ocean or other waters and have a hard external shell, which protects their body
3. Reptiles, amphibians and aves are cold blooded animals while mammals are warm blooded animals

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1 and 3 only

Q35. Consider the following statements regarding Central Zoo Authority:

1. The Central Zoo Authority has been constituted under the Environment Protection Act 1986.
2. The Central Zoo Authority regulates the exchange of animals of endangered category Listed under Schedule-I and II of the Wildlife Protection Act among zoos.
3. It is chaired by the environment minister and has 10 members and a member-secretary.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q36. Consider the following statements regarding Project Elephant:

1. Project Elephant is a Centrally Sponsored Schemes (CSS) launched for the protection of elephants, their habitats and corridors.

2. The Financial Support for the project comes from Global Environment Facility while technical support comes from the Ministry of Environment Forest and Climate Change.
3. Agastamalai in Tamilnadu is notified as Elephant Reserve after Singhphan Elephant Reserve in Jharkhand.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q37. Which of the following statements correctly summaries Biodiversity Intactness Index?

- (a) It summarises the change in ecological communities in response to human pressures.
- (b) It summarises the concentration of Flora and Fauna in a particular territory.
- (c) It summarises the average climate funding percentage of a country with respect to its G.D.P.
- (d) Its summaries the biodiversity concentrated in a specific country.

Q38. Consider the following statements regarding various Ramsar sites in India:

1. Karikili Bird Sanctuary along with Vedanthangal Bird Sanctuary has been identified as one of the Important Bird Areas of Kerala.
2. The Sakhya Sagar Lake is a human-made reservoir on the Manier River, lies at the edge of the forests of the Madhav National Park in Madhya Pradesh
3. Pala Wetland falls under the Indo-Burma biodiversity hotspot and major component of the Palak Wildlife Sanctuary is located in Manipur

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 2 and 3 only

Q39. Consider the following statements regarding Ramsar convention:

1. It is an international treaty for the conservation and wise use of wetlands Known officially as 'the Convention on Wetlands of International Importance especially as Waterfowl Habitat' came into force in 1975.
2. Every three years, representatives of the contracting parties meet as the Conference of the Contracting Parties.
3. Montreux Record is the primary tool under the Ramsar Convention for recognizing wetlands sites on priority basis.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q40. Consider the following pairs regarding wetlands and their location:

Wetland/Lake	Location
1. Thane creek	: Maharashtra
2. Yashwant Sagar Lake	: Gujarat
3. Ansupa lake	: Odisha
4. Sasthamkotta Lake	: Tamil Nadu

How many pairs given above are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs

(d) All four pairs

Q41. “This national park is Located in the Chambal region, that forms part of Sheopur-Shivpuri deciduous open forest landscape and is estimated to have a capacity to sustain cheetahs. It offers the prospect of housing four big cats of India - tiger, lion, leopard and cheetah and allowing them to coexist. It is also a part of the Khathia- Gir dry deciduous forests ecoregion”.

Which of the following is referred to in the above lines?

- (a) Kuno palpur national park
- (b) Bandhavgarh national park
- (c) Gir national park
- (d) Nauradehi wildlife sanctuary

Q42. Consider the following pairs regarding Ramsar sites:

Wetlands.	States / Region
1. Bakhira	Rajasthan
2. Khijadia.	Gujarat
3. Shallabugh	Himachal
4. Hygam	Jammu and Kashmir

How many pairs given above is/are correctly matched?

- (a) Only one pair
- (b) Only two pair
- (c) Only three pair
- (d) All the four pairs

Q43. Consider the following statements regarding BiodiverCities by 2030 Initiative:

1. It is a joint initiative of the UN-habitat and the Government of Colombia to support city governments, businesses and citizens, to enable cities to live in harmony with nature by 2030.
2. A report titled ‘BiodiverCities by 2030 Transforming cities relationship with nature’ was published by World Wildlife Fund

3. The Global Risks Report 2022, that examines risks across five categories like economic, environmental, geopolitical, societal, and technological is published by World Economic Forum

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q44. In which of the following regions of India are you most likely to come across the ‘hump-backed mahseer, in its natural habitat?

- (a) Chambal river
- (b) Cauvery basin
- (c) Ganges basin
- (d) Brahmaputra

Q45. Consider the following statements regarding Dholes:

1. Dhole also known as Asian wild dog is a wild carnivorous animal belonging to the canine family and endemic to Southeast Asia only.
2. The dhole is found only in two clusters across India namely the Western, Eastern Ghats and central Indian landscape
3. In India, the first conservation breeding centre for dhole was built at the Indira Gandhi Zoological Park in 2014.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q46. The wetland located in Haryana is a flora and fauna rich water body. It lies in one of the paleochannel of the Sahibi River, a tributary of Yamuna Which originates from the Aravalli range in Rajasthan and flows through the region. It is recognised as a key biodiversity area by the IUCN recognized globally as an Important Bird Area (IBA) by BirdLife International has not yet been declared a protected wetland by the Government of Haryana.

Which of the following wetlands are referred to in the above lines?

- (a) Harike Wetland
- (b) Pong dam
- (c) Basai Wetland
- (d) Kanjli Wetland

Q47. In which of the following regions of India are we most likely to come across the Saltwater Crocodile, in its natural habitat?

- 1. Chambal river
- 2. Sundarbans
- 3. Bhitarkanika National Park
- 4. Andaman and Nicobar Islands

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

Q48. Which of the following species does not belong to the category of Mammals and are naturally found in India?

- 1. Pygmy Hog
- 2. Anamalai Flying Frog
- 3. Gharial

Select the correct answer using the code given below:

- (a) 2 only

- (b) 1 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q49. Consider the following statements regarding Agarwood:

- 1. Agarwood is a resinous part of the non-timber Aquilaria tree and not all Aquilaria tree can produce agarwood.
- 2. Agarwood is a fast-growing tree species native to western ghats and they are endemic to India.
- 3. IUCN has listed the agarwood species under the critically endangered category in the Red List.

Which of the statements given above is /are not correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q50. Consider the following statements in context of Asiatic Cheetah:

- 1. Asiatic Cheetah Slightly bigger than the African Cheetahs and listed in Schedule 2 of the Wildlife Protection Act, 1972.
- 2. The Asiatic cheetah is classified as a "critically endangered" species by the IUCN Red List.
- 3. Recently the Government of India Launched Cheetah reintroduction project in India from South Africa and Namibia to Gir national park.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q51. Consider the following statements regarding Biodiversity Conservation:

1. Conservation of biological diversity doesn't lead to the conservation of essential ecological diversity but helps in preserving the continuity of food chains
2. Established natural habitats are Ex-situ mode of biodiversity conservation.
3. Unplanned urbanization and uncontrolled industrialization are major hurdles in biodiversity conservation.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q52. Consider the following difference between in-situ and ex-situ conservation methods of biodiversity:

1. In-situ conservation involves the breeding and maintenance of endangered species in an artificial ecosystem, whereas ex-situ conservation is the conservation of species within their natural habitat.
2. Examples of in-situ are botanical gardens, gene banks and Examples of ex-situ are national parks, wildlife sanctuaries, etc.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q53. Consider the following statements with reference to the Man and Biosphere (MAB) Programme:

1. It is an intergovernmental scientific programme.

2. It ensures basic human welfare and a liveable environment in the face of rapid urbanization and energy consumption as environmental change drivers.
3. The United Nations Environment Programme (UNEP) has designated Biosphere Reserves (BR) as representative parts of natural and cultural landscapes.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q54. Consider the following pairs with reference to the captive breeding programmes:

(Park/Sanctuary)	(State)
1. Katraj Snake Park	:Maharashtra
2. Devaliya Safari Park	:Gujarat
3. Ramanagara Vulture Sanctuary	:Kerala
4. Arignar Anna Zoological Park	:Bihar

Which of the pairs given above is/are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

Q55. With reference to the biodiversity conservation in India, consider the following statements:

1. It is mandatory for individuals, institutions (both Indian and foreign) Which are extracting biological resources to take prior approval and share benefits with the local community.
2. India has notified access and benefit sharing regulations to give effect to Cartagena Protocol.
3. Ayush practitioners are exempted from getting prior approval for accessing biological

resources under the Biodiversity Act of 2002.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) None of the above

Q56. Consider the following statements:

1. The National Biodiversity Authority is an executive body established through the order of a Cabinet committee headed by the Prime Minister.
2. The State Biodiversity Boards focus on advising the State Governments, subject to any guidelines issued by the Central Government
3. Charges of bio piracy are treated as civil offences under the Biodiversity act 2002.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q57. Consider the following pairs:

Tiger reserves	State / Region
1. Dudhwa	Uttar Pradesh
2. Dampa	Arunachal Pradesh
3. Sitanadi-Udanti	Odisha
4. Kawal	Andhra Pradesh

How many pairs given above is/are incorrectly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

Q58. Consider the following statements regarding Nilgiri Biosphere Reserve:

1. The Nilgiri Biosphere Reserve was the first biosphere reserve in India which is the source region of major tributaries of river Mahanadi.

2. The reserve includes evergreen, semi evergreen, dry and moist deciduous, sholas and grassland types of vegetation.
3. Doddabetta is the highest peak of the Nilgiri Biosphere Reserve.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q59. Which of the following statements is incorrect with respect to the Biological Diversity Act, 2002?

- (a) The Act was enacted to meet the obligations under the Convention on Biological Diversity (CBD)
- (b) The act envisaged a two-tier structure (Centre and State level) to regulate the access to biological resources
- (c) The Act exempts endemic resources that are traditionally used as commodities.
- (d) None of the above-mentioned statements is incorrect.

Q60. "It is a national park, a tiger reserve and a Biosphere reserve. It is part of the an Elephant Reserve and includes protected areas such as Hadgarh Wildlife Sanctuary and Kuldiha Wildlife Sanctuary. It derives its name from the abundance of red silk cotton trees growing in the area. The main waterfalls in the protected area are the Barehipani Falls and the Joranda Falls".

Which of the following is referred to in the above lines?

- (a) Debang Dehang biosphere reserve
- (b) Pachmarhi biosphere reserve
- (c) Dibru-Saikhowa national park
- (d) Simlipal national park

Q61. “It is a subspecies of Central Asian red deer endemic to Kashmir and surrounding areas. It is found in dense riverine forests in the high valleys and mountains of Jammu and Kashmir and northern Himachal Pradesh. In Kashmir, it is found primarily in the Dachigam National Park where it receives protection, and elsewhere it is more at risk”.

Which of the following species is referred to in the above lines?

- (a) Swamp deer
- (b) Nilgai
- (c) Sangai deer
- (d) Hangul

Q62. Consider the following pairs regarding the protected areas and the tribes residing in them:

Protected areas	Tribes
1. Agasthyamalai Reserve	Mankidia
2. Nilgiri biosphere reserve	Todas
3. Valmiki tiger reserve	Tharu
4. Simlipal tiger reserve	Kanikaran

How many pairs given above is/are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

Q63. Consider the following statements regarding protected areas:

- Ranthambore tiger reserve is situated at the junction of the Aravali and Vindhya hill ranges.
- Periyar Tiger reserve in Kerala is situated in the Anaimalai hills of southern western ghats.
- Kalakkad Mundanthurai Tiger Reserve located in the western Ghats is part of the Nilgiri Biosphere Reserve.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) None of the above

Answer Key					
Q.1)	Ans: C	Q.22)	Ans: A	Q.43)	Ans: B
Q.2)	Ans: C	Q.23)	Ans: B	Q.44)	Ans: B
Q.3)	Ans: C	Q.24)	Ans: B	Q.45)	Ans: B
Q.4)	Ans: A	Q.25)	Ans: B	Q.46)	Ans: C
Q.5)	Ans: B	Q.26)	Ans: B	Q.47)	Ans: C
Q.6)	Ans: D	Q.27)	Ans: D	Q.48)	Ans: C
Q.7)	Ans: B	Q.28)	Ans: B	Q.49)	Ans: A
Q.8)	Ans: D	Q.29)	Ans: C	Q.50)	Ans: A
Q.9)	Ans: D	Q.30)	Ans: C	Q.51)	Ans: A
Q.10)	Ans: C	Q.31)	Ans: D	Q.52)	Ans: D
Q.11)	Ans: A	Q.32)	Ans: B	Q.53)	Ans: A
Q.12)	Ans: B	Q.33)	Ans: C	Q.54)	Ans: B
Q.13)	Ans: C	Q.34)	Ans: C	Q.55)	Ans: C
Q.14)	Ans: A	Q.35)	Ans: B	Q.56)	Ans: B
Q.15)	Ans: B	Q.36)	Ans: C	Q.57)	Ans: C
Q.16)	Ans: B	Q.37)	Ans: A	Q.58)	Ans: B
Q.17)	Ans: B	Q.38)	Ans: B	Q.59)	Ans: B
Q.18)	Ans: A	Q.39)	Ans: D	Q.60)	Ans: D
Q.19)	Ans: C	Q.40)	Ans: B	Q.61)	Ans: D
Q.20)	Ans: D	Q.41)	Ans: A	Q.62)	Ans: B
Q.21)	Ans: B	Q.42)	Ans: B	Q.63)	Ans: A

Protected Area's

Q1. Which of the following pairs of Tiger Corridors and the States in which they are present in India is/are mentioned correctly?

Tiger corridor	State
1. Indravati-Udanti Sitanadi-Sunabeda	Chhattisgarh and Odisha
2. Dandeli Anshi-Sharavathi Valley	Karnataka
3. Parambikulam-Ernakulam- Indira Gandhi	Kerala and Tamil Nadu
4. Manas- Buxa	Assam and Arunachal Pradesh
5. Kamlang-Kane-Tale Valley	Arunachal Pradesh

Select the correct answer from the codes given below:

- (a) 1, 2 and 3 only
- (b) 4 and 5 only
- (c) 1, 2, 3 and 5 only
- (d) 3 only

Q2. Recently, A document titled "Connecting Tiger Populations for Long-term Conservation" was published by which of the following institutions/organizations?

- (a) National Tiger Conservation Authority and Wildlife Institute of India
- (b) International Union for Conservation of Nature and World-Wide Fund for Nature.
- (c) Indian Institute of Forest Management and Ministry of Environment Forest and Climate Change
- (d) Global Tiger Forum and United Nations Development Program.

Q3. With reference to Tx2 initiative, consider the following statements:

- 1. It is a global commitment to double the world's wild tigers by 2022.
- 2. Pilibhit Tiger Reserve has won the inaugural TX2 Award, for its remarkable contribution to tiger conservation.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q4. An area owned by the State Government adjacent to National Parks and sanctuaries for protecting the landscape, seascape and habitat of fauna and flora is the definition of:

- (a) Community Reserve
- (b) Sanctuary
- (c) Conservation Reserves
- (d) Sacred Groves

Q5. CaTrat was recently seen in news is related to:

- (a) A software used for the purpose of Tiger Census.
- (b) A type of disease originating from rats that can be transmitted into humans.
- (c) A method to dispose of the virulent genes during captive breeding.
- (d) A type of enzyme inhibitor used to dispose of foreign bodies.

Q6. "This National Park is located on the foothills of the Himalayas with semi evergreen and moist deciduous forests, the river Jia-Bhoreli cuts across the area. The Pakke Tiger Reserve of Arunachal Pradesh shares its border with this National Park". Which of the following National Parks is mentioned here?

- (a) Manas National Park

- (b) Nameri National Park
- (c) Dibru Saikhowa National Park
- (d) Rajiv Gandhi Orang National Park.

Q7. Sonai-Rupai Wildlife Sanctuary, Orang National Park, Barnadi Wildlife Sanctuary and recently included Manas National National Park are known for the conservation and reintroduction of which of the following species?

- (a) Spider monkey
- (b) Indian Giant Squirrel
- (c) Pygmy Hog
- (d) Marbled Cat

Q8. Consider the following statements with respect to Kaziranga National Park:

1. In March 2020, it was selected as one among the 17 Iconic Tourist Sites of the country by the Indian Government.
2. Presence of alluvial savanna woodlands and tropical semi-evergreen forest vegetation in the National Park.
3. It is designated as an 'Important Bird Area' by Birdlife International.
4. It is located in Chirang and Baksa District of Assam in northeast India and is contiguous with the National Park of Bhutan.

Which of the above statements is/are correct?

- (a) 1, 2 and 3 only
- (b) 2 only
- (c) 1 and 4 only
- (d) 1, 2, 3 and 4

Q9. With respect to community reserves in India, consider the following statement:

1. To be notified as a Community Reserve, the land should be community land or land owned by the State Government.

2. There is no provision for change in land use pattern within a Community Reserve at any time.
3. Nagaland has the maximum number of community reserves in India in terms of area.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only

Q10. Management Effectiveness Evaluation (MEE) of National Park and Wildlife Sanctuaries in India is released by which of the following organizations?

- (a) Ministry of Environment, Forest and Climate Change
- (b) NITI Aayog.
- (c) The Energy and Resource Institute.
- (d) WildLife Trust of India.

Q11. Consider the following statements regarding 'Conservation Reserve Management Committee':

1. It is constituted under the Forest Conservation Act, 1980.
2. The State Government shall constitute a conservation reserve management committee to advise the Chief Wild Life Warden.
3. Change in the land use pattern can be made within the community reserve without the permission of the Conservation Reserve Management Committee.

Select the correct statement(s) from the codes given below.

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 only

(d) 2 and 3 only

Q12. Consider the following marine protected areas of India:

1. Gulf of Kutch Marine National Park
2. Mahatma Gandhi Marine National Park
3. Gulf of Mannar Marine National Park
4. Rani Jhansi Marine National Park

Which is their correct order from north to south?

- (a) 1-2-4-3
- (b) 1-4-2-3
- (c) 1-2-3-4
- (d) 1-4-3-2

Q13. It is an artificial lake, and has recently been designated as a Ramsar site. Originally created to supply water to the city of Agra in the summer, the wetland soon became an important and rich ecosystem. Alongside this lake lies a sloth bear rescue facility dedicated to rehabilitating previously enslaved 'dancing bears'. The Site is important for bird species which migrate on the Central Asian flyway, with over 30,000 waterbirds known to visit the reservoir annually.

Which of the following sites best represent the above description?

- (a) Nawabganj Bird Sanctuary
- (b) Samaspur Bird Sanctuary
- (c) Parvati Aranga Bird Sanctuary
- (d) Sur Sarovar Bird Sanctuary

Q14. With reference to the sacred groves in India, consider the following pairs:

1. Sarana - Rajasthan
2. Jogmaya - Jharkhand
3. Gumpa Forests - Arunachal Pradesh
4. Pavithravana - Andhra Pradesh

Which of the pairs given above are correctly matched?

- (a) 1 and 2
- (b) 2 and 3
- (c) 2 and 4
- (d) 3 and 4

Q15. Consider the following National Parks:

1. Bandipur
2. Nagarhole
3. Silent Valley
4. Bannerghatta

Arrange the above from low latitude to high latitude.

- (a) 4-2-1-3
- (b) 2-4-1-3
- (c) 3-1-4-2
- (d) 3-1-2-4

Q16. Which of the following statements best describes the "deemed forests"?

- (a) Thickly wooded areas of the revenue department.
- (b) Land having characteristic of forests irrespective of ownership.
- (c) Thickly/sparsely wooded areas of the forest department.
- (d) All recorded land of forest department irrespective of vegetation status.

Q17. 'SAVE' is a conservation initiative to protect which of the following species?

- (a) Snow Leopard
- (b) Great Indian Bustard (GIB)
- (c) Vultures
- (d) Sea Turtle

Q18. Consider the following statements about the 'No-Go' forests:

1. No mining activities are allowed in such forests.
2. They are designated so under the Wildlife Protection Act, 1972.
3. These areas have more than 20 percent weighted forest cover (WF(C) or more than 30 per cent gross forest cover (GFC).

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1 and 3 only

Q19. It is situated at the confluence of Banas and Chambal in the vicinity of the Aravalli hills and Vindhya plateau. It is also a Tiger Reserve. Jogi Mahal is another attraction of this place. Many picturesque lakes enrich the landscape.

Identify the protected area.

- (a) Madhav National Park
- (b) Gandhi Sagar Wildlife Sanctuary
- (c) Ram Sagar Wildlife Sanctuary
- (d) Ranthambore National Park

Q20. Which among the following protected area sites has the unique distinction of being a national park, a wildlife sanctuary, a world heritage site, a biosphere reserve, a tiger reserve as well as an elephant reserve?

- (a) Kaziranga National Park
- (b) Panna National Park
- (c) Bandipur National Park
- (d) Manas National Park

Q21. "India Eco Development Project" is related to the development of which of the following?

- (a) For the development of the National Water Ways of India.

- (b) To conserve biological diversity in globally significant protected areas.
- (c) For the protection of Eastern Himalayan Ecosystem.
- (d) To counter the frequent landslides in the Himalayan States by checking on unplanned development of the hilly regions.

Q22. Global Tiger Initiative is a program initiated by which of the following organizations?

- (a) International Conservation of Nature
- (b) World Wide Fund for Nature
- (c) World Bank
- (d) Wildlife Institute of India.

Q23. Consider the following statements regarding various policies and characteristics related to elephants?

1. Project RE-HAB is introduced to Reduce the Elephant-Human Attacks using bees.
2. Highest Populations of elephants are found in Kerala followed by Assam and Karnataka.
3. Tusks are present in the female Asian elephants and absent in the female African elephants.
4. Asian elephants form herds of related females that are led by the oldest female, the 'matriarch'.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 1 and 4 only

Q24. Consider the following statements regarding conservation of Tiger:

1. Conservation Assured Tiger Standards (CATS) are globally accepted conservation tools that set best practices and standards to manage

tigers and assessments to benchmark progress only for the tiger.

2. India is home to about 70% of the global tiger population, wherein Uttar Pradesh has the maximum number of tigers followed by Karnataka and Uttarakhand.
3. Tigers are both a Flagship and Umbrella species.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 1 only

Q25. Consider the national park and tiger reserve and its location:

National Parks	Location
Raimona National Park:	Assam
Parambikulam Tiger Reserve:	Andhra Pradesh
Buxa Tiger Reserve:	West Bengal
Dihing Patkai National Park:	Manipur

How many pairs given above is/are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

Q26. Consider the following statements regarding the Biosphere reserves in India:

1. Biosphere reserves are sites established by countries and recognized under UNEP's Man and the Biosphere Programme to promote sustainable development based on local community efforts and sound science.

2. The Nilgiri Biosphere Reserve in the Nilgiri mountains of the Western Ghats spread across the states of Tamil Nadu, Karnataka and Andhra Pradesh.
3. The Pachmarhi Biosphere Reserve in the Vindhyan Range of Madhya Pradesh includes three wildlife conservation units Bori Sanctuary, Pachmarhi Sanctuary and Satpura National Park.
4. Dehang-Debang is a biosphere reserve in Assam that covers high mountains of Eastern Himalaya and Mishmi Hills

Which of the statements given above is/are incorrect?

- (a) 3 only
- (b) 2 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

Q27. Consider the following statements about SECURE Himalayas project:

1. The project was launched by the Ministry of Environment, Forests and Climate Change (MoEF(C)) in association with the United Nations Development Programme (UNDP).
2. It is aimed solely for the conservation of locally and globally significant biodiversity, land and forest resources in the north eastern Himalayan ecosystem.
3. The project supports the Global Snow Leopard Ecosystem Protection Program (GSLEP).

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q28. Consider the following statements regarding Culture Conservation:

1. India is a member of Saving Asia's Vultures from Extinction (SAVE) programme and also a signatory to the Convention on Migratory Species' Multi-species Action Plan to Conserve African-Eurasian Vultures.
2. Use of Diclofenac Drug is one of the prominent causes for the declining population of vultures but the Indian government has allowed its use till 2018.
3. Action Plan for Vulture Conservation 2020-2025 aimed to establish Additional Conservation Breeding Centres along with Vulture Conservation Centres in India.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q29. Consider the following statements regarding Tiger Conservation:

1. Project Tiger has been converted into a non-statutory authority, National Tiger Conservation Authority (NTCA) by providing enabling provisions in the Wild Life (Protection) Act, 1972.
2. India is a part of CATS or Conservation Assured Tiger Standards which is a globally accepted conservation tool agreed by the global coalition of Tiger Range countries.
3. India hosted the International Tiger Youth Summit 2022 to honor tigers and the young people who are speaking out in support of tigers.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q30. Consider the following statements with reference to the High-Altitude Tiger (HAT) Project:

1. It is an initiative of the Government of India in collaboration with Global Tiger Forum (GTF) to assess the population of tigers in high altitude areas.
2. The initiative will track the tiger population concerning the geographical expanse of India and Nepal only.

Which of the above-mentioned statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Answer Key			
Q.1)	Ans: C	Q.16)	Ans: B
Q.2)	Ans: A	Q.17)	Ans: C
Q.3)	Ans: C	Q.18)	Ans: A
Q.4)	Ans: C	Q.19)	Ans: D
Q.5)	Ans: A	Q.20)	Ans: D
Q.6)	Ans: B	Q.21)	Ans: B
Q.7)	Ans: C	Q.22)	Ans: C
Q.8)	Ans: A	Q.23)	Ans: D
Q.9)	Ans: D	Q.24)	Ans: B
Q.10)	Ans: A	Q.25)	Ans: B
Q.11)	Ans: C	Q.26)	Ans: D
Q.12)	Ans: B	Q.27)	Ans: C
Q.13)	Ans: D	Q.28)	Ans: C
Q.14)	Ans: D	Q.29)	Ans: B
Q.15)	Ans: D	Q.30)	Ans: D

Ozone Depletion

Q1. With reference to Solar Radiation Management, consider the following statements:

1. Its aim is to reduce the inflow of solar energy, rather than to reduce global warming by reducing greenhouse gases.
2. Stratospheric aerosol injection and Whitening clouds could reflect away inbound sunlight and cool the planet.
3. Low and thick clouds reflect shortwave radiation back to space.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q2. Recently ozone depletion is a high concern among environmentalists. Observe the following effects of ozone depletion:

1. Damage in DNA mutations.
2. Damage to cornea and causes retinal diseases.
3. Decline the forest productivity
4. Reduces the survival rate of plankton in oceans.
5. Inhibits photosynthesis.

Which of the statements given above are correct?

- (a) 1, 2, 4 and 5 only
- (b) 1, 3 and 5 only
- (c) 2, 4 and 5 only
- (d) 1, 2, 3, 4 and 5

Q3. Consider the following statements regarding Greenhouse gases:

1. Carbon dioxide is the biggest overall contributor to the greenhouse effects.
2. Nitrous oxide is only generated through natural resources and contributes to the greenhouse effect.
3. Black carbon harms the atmosphere as it stays in the atmosphere for decades.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only

Q4. Consider the following statements regarding Methane:

1. Methane is a short-lived climate pollutant (SLCP) with an atmospheric lifetime of roughly a decade.
2. Global Methane Initiative is a voluntary Government and an informal international partnership created to achieve global reduction in anthropogenic methane.
3. India has recently joined the Global Methane Pledge, under which countries cut their methane emissions by at least 30%.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) 1 only

Q5. Consider the following statements about Ozone depletion:

1. Tropospheric ozone is formed naturally through the interaction of solar ultraviolet radiation with oxygen whereas Stratospheric ozone is formed primarily from photochemical reactions between volatile organic compounds (VOC) and nitrogen oxides (NO_x).
2. The rate at which ozone is being destroyed is much faster than the rate at which it is being formed.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q6. Consider the following statements regarding Climate forcing:

1. Positive forcing cools the Earth, while negative forcing warms the Earth.
2. Volcanic eruptions and aerosols cause negative forcing.
3. Natural forcing includes change in the amount of energy emitted by the sun, variation in the earth's orbit and volcanic eruption.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3 only

Q7. Consider the following statements regarding depletion of Ozone layer:

1. Ozone in the Troposphere is good because it protects Earth by absorbing some of the sun's harmful Ultra Violet (UV) rays.
2. Unlike other chemicals, chlorofluorocarbons cannot be eliminated from the atmosphere by the usual scavenging processes like photodissociation, rain-out and oxidation.
3. There exists a correlation between the cycle of ozone depletion and the presence of polar stratospheric clouds.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q8. Consider the following statements regarding the Montreal Protocol on Substances that Deplete the Ozone Layer:

1. Under the Kigali Amendment, Parties to the Montreal Protocol will phase down production and consumption of Hydrofluorocarbons.
2. The Protocol is to date the only UN treaty ever that has been ratified every country on Earth, all UN Member States.
3. India has failed to meet the phase out targets of all the Ozone Depleting Substances as per the Montreal Protocol Schedule.

4. Ozone Depleting Substances (Regulation and Control) Amendment Rules, 2019 have been issued under the Air (Prevention and Control of Pollution) Act, 1981.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 and 4 only
- (d) 2 and 4 only

Q9. Consider the following statements with reference to Ozone Layer Depletion:

1. The thickness and thinning of the ozone layer are uniform all over the Earth.
2. Ozone is present only in the uppermost layer of the atmosphere.
3. The Kyoto Protocol is seen as a landmark environmental agreement that aims to regulate the production and consumption of almost 100 man-made chemicals referred to as ozone-depleting substances (ODS).

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 only
- (d) All of the above

Q10. Polar Stratospheric Clouds or nacreous clouds cause Ozone depletion. In the view of this, consider following statements:

1. Polar Stratospheric Clouds or nacreous clouds contain water and Hydrochloric acid only which facilitates the supply of chlorocarbons.
2. These clouds are formed throughout the year over the Poles.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Answer Key				
1) Ans: D	3) Ans: D	5) Ans: B	7) Ans: B	9) Ans: D
2) Ans: D	4) Ans: A	6) Ans: B	8) Ans: A	10) Ans: D

Climate change and mitigations

Q1. Consider the following statements about the Green Climate Fund:

1. It aims to assist developing countries in adaptation and mitigation practices to counter climate change.
2. It was created under the Kyoto Protocol for mitigating climate change.
3. GCF is mandated to invest 50% of its resources to mitigation and 50% to adaptation in grant equivalent.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 2 only
- (d) 1 and 3 only

Q2. Consider the following statements about the Kyoto Protocol and Paris Agreement:

1. The Kyoto Protocol required only developed countries to reduce emissions, while the Paris Agreement called on all countries to set emissions targets.
2. Both of them fall under the framework of UNEP.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. With reference to the Intended Nationally Determined Contribution (INDC), consider the following statements:

1. The INDCs submitted by the countries presently have no legal status.
2. A total of 40% of the installed capacity for electricity will be from non-fossil fuel sources under India's INDC targets.

3. Under the provisions of the Paris Agreement, countries will be expected to submit an updated NDC every five years.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above.

Q4. In the context of Carbon Sequestration, consider the following statements:

1. Storage sites used for CO₂ are former oil and gas reservoirs, deep saline formations, and coal beds, and saline formations.
2. Artificial sequestration is a slow process as compared to Natural sequestration.
3. Iron fertilization of oceans can help in the Carbon Sequestration.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q5. With reference to Carbon Trading, consider the following statement:

1. The Paris Agreement has a provision of compulsory trading between countries to meet their NDC goals.
2. It allows nations which are unable to meet their reduction targets to purchase carbon credits.
3. Carbon trading uses a cap-and-trade system.

Which of the statements given above is/are correct?

- (a) 1 and 2 only

- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 2 only

Q6. In the context of Global Environment Facility (GEF), consider the following statements:

1. This facility works under the World Bank to tackle the planet's biggest environmental issues.
2. India is both a donor and a recipient of GEF.
3. The GEF serves as a financial mechanism for the Stockholm Convention, Minamata Convention and the Montreal Protocol.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 2 and 3 only

Q7. Consider the following statements about the Graded Response Action Plan:

1. Graded Response Action Plan works only as an emergency measure.
2. The plan is incremental in nature.
3. The GRAP is to be implemented across all the states of India including Jammu and Kashmir.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 2 only

Q8. Consider the following statements about the Adaptation Fund:

1. It was established under the Kyoto Protocol of UNFCCC.

2. The Clean Development Mechanism is a source of income for the Adaptation Fund.
3. The World Economic Forum serves as trustee of the Adaptation Fund on an interim basis.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) All of the above

Q9. Consider the following statements:

1. Gasification is a process that can convert any carbon-based raw material such as coal into fuel gas.
2. Syngas is a mixture of hydrogen (H_2), carbon monoxide (CO) and carbon dioxide (CO_2).

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q10. In the context of Stockholm Convention Persistent Organic Pollutants, consider the following statements:

1. India is yet to ratify the Stockholm Convention.
2. The Global Environmental Facility is designated as the financial mechanism for the Stockholm Convention.
3. The convention calls to limit the use of DDT to malaria control.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only

(d) 1 and 3 only

Q11. In the context of Green Crackers, consider the following statements:

1. Green crackers are produced using no harmful raw materials and have additives which eliminate emissions completely.
2. They contain chemicals such as lithium, arsenic, barium and lead.
3. Green crackers release water vapor and don't allow the dust particles to rise.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

Q12. Consider the following statements about enhancing Climate Change Mitigation through Agriculture:

1. Integrating livestock into crop production systems reduces agriculture's own footprint.
2. Increased tillage can contribute to cutting the greenhouse-gas emissions of agriculture.
3. Decreasing meat production can help in climate change mitigation.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) All of the above

Q13. Consider the following statements with respect to pluviculture:

1. Pluviculture is the act of artificially increasing precipitation/rain.
2. It is a permanent way of suppressing the pollutants present in the air.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q14. Consider the following statements:

1. The government of Bhutan is the first country to become carbon negative.
2. Carbon Neutrality involves zero emission of Carbons by the industries.
3. Greenwashing can help in achieving Carbon Neutrality.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 only
- (d) All of the above

Q15. Consider the following statements about Paris Climate Accord:

1. It is an agreement within the United Nations Framework Convention on Climate Change.
2. Like the Kyoto Protocol, the Paris Agreement, allows for voluntary and nationally determined targets.
3. Iran, Iraq and Libya, China and South Sudan have not ratified the Paris Agreement.

Which of the statements given above are incorrect?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q16. Consider the following Pairs:

Treaties/Protocols	Components
1. REDD+	Focuses on eliminating transboundary movement of exotic animals.
2. Nagoya Protocol	Applies to Human Genetic Material.
3. Talanoa Dialogue	Guidance for proper importing of living modified organisms.

Which of the pairs given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) None of the above.

Q17. With reference to the State Pollution Control Boards (SPCB), consider the following statements:

- 1. The SPCB is constituted under the Water Act, 1974.
- 2. SPCB has the power to hold, acquire, and dispose of property.
- 3. SPCB has to inspect sewage or the trade effluents works and plants to treat sewage and trade effluents.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above.

Q18. Consider the following statements regarding carbon capturing and storage:

- 1. It is the process of capturing carbon dioxide after it enters the atmosphere.

- 2. Post-combustion, pre-combustion and oxy-fuel combustion are different methods to capture carbon.
- 3. Both artificial and natural sinks are used to store captured carbon.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q19. Consider the following statements regarding Climate and Clean Air Coalition:

- 1. The objective of the coalition is to reduce Short Lived Climate Pollutants like Methane, Black Carbons and HFCs.
- 2. It was founded by the Government of India, Bangladesh, Canada, USA along with UNEP.
- 3. Short lived climate pollutants are primarily sourced from anthropogenic activities and responsible for about 45% of global warming.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 1 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

Q20. Which of the following are components of Geo-Engineering?

- 1. Artificial Volcano
- 2. Shooting mirror in space
- 3. Iron seeding of sea
- 4. Whitening of clouds
- 5. Cloud thinning
- 6. Injection of aerosol particles

Select the correct answer using the code given below:

- (a) 1, 2, 5 and 6 only
- (b) 2, 4 and 5 only
- (c) 1, 2, 4, and 6 only
- (d) All of the above

Q21. Consider the following statements regarding India's proposed Intended Nationally Determined Contributions (INDC):

1. INDC are binding national plans highlighting climate measures governments aim to implement in response to climate change.
2. The updated NDC reads put forward mass movement for 'LiFE'– 'Lifestyle for Environment' as a key to combating climate change.
3. Successful implementation of the targets will bring Climate Justice to a wider level.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q22. Which of the following are important measures for mitigating climate change:

1. Improving energy efficiency
2. Increasing gas flaring
3. Clean coal technology and Coal washing
4. Reduce mass rapid transport system
5. Afforestation

Choose the correct answer using the code given below:

- (a) 1, 3 and 5 only
- (b) 2, 4 and 5 only
- (c) 1, 3, 4 and 5 only
- (d) All of the above

Q23. Consider the following statements regarding carbon sinks:

1. A carbon sink is anything that releases more carbon to the atmosphere than it absorbs.
2. Green carbon is carbon removed by photosynthesis and stored in the plants and soil of natural ecosystems and is a vital part of the global carbon cycle.
3. Blue Carbon refers to carbon sinks held by coastal, aquatic, and marine vegetation, marine organisms, and sediments.
4. India's Sundarbans National Park is among five sites that have the highest blue carbon stocks globally.

Which of the statements given above are correct?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

Q24. Consider the following statements regarding Carbon Market:

1. Carbon footprint can be defined as the total amount of greenhouse gases produced to directly and indirectly support human activities, usually expressed in equivalent tons of carbon dioxide.
2. Carbon credits are the credits for reductions in greenhouse gas emissions made that are quantified and sold in metric tonnes of carbon dioxide equivalent.
3. Carbon offsets is a term for any tradable certificate representing the right to emit one tonne of carbon dioxide or the mass of another greenhouse gas (GHG) with a carbon dioxide equivalent (CO₂) equivalent to one tonne of carbon dioxide.
4. International Emissions trading or trading of carbon emissions permit was not allowed under Kyoto protocol.

Which of the statements given above is/are incorrect?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 4 only
- (d) 1, 2, 3 and 4

Q25. Consider the following statements regarding Carbon capture, utilization and sequestration:

1. It is a process that captures carbon dioxide emissions from sources like coal-fired power plants and either reuses or stores it so that it will not enter the atmosphere.
2. Ministry of Environment, Forest and Climate Change has established two National Centres of Excellence in Carbon Capture & Utilisation (CCU) in India.
3. Accelerating CCUS Technologies (ACT) is an initiative to facilitate the emergence of CO₂ Capture, Utilisation and Storage (CCUS).

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q26. Consider the following statements regarding Green-Ag project:

1. The government launched the Green-Ag Project to reduce emissions from agriculture and ensure sustainable agricultural practices.
2. The Green-Ag Project is funded by the Global Environment Facility, while the Ministry of Environment, Forest and Climate Change is the national executing agency.
3. The Project will be implemented in all the States and Union territories of India

Which of the statements given above is/are correct?

- (a) 2 only

- (b) 1 only
- (c) 2 and 3 only
- (d) None of the above

Q27. Consider the following statements regarding Coal gasification:

1. Coal gasification is the process of converting coal into synthesis gas (syngas).
2. The Union government has allowed a concession of 50 percent in revenue share for coal gasification.
3. Coal gasification is considered as clean coal technology compared to burning of coal.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) None of the above

Q28. Consider the following statements with respect to ozone depletion:

1. Chlorofluorocarbons (CFCs) are non-toxic organic molecules that result in ozone depletion.
2. Free Chlorine radicals are formed when CFCs are broken down by UV radiations.
3. Polar stratospheric clouds provide a surface for the reactions causing ozone depletion.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q29. Which of the following is *not* mentioned under the Five-Point Climate Action announced by India at the COP26 Climate Change Conference in Glasgow?

- Reach non-fossil fuel energy capacity to 500 GW by 2030.
- Meet 50 percent of its energy requirements from renewable energy by 2030.
- Achieve the target of net-zero emissions by 2050.
- Reduction of the carbon intensity of the economy by 45 per cent by 2030, over 2005 levels.

Q30. Consider the following statement about Carbon Budget:

- It is the intended reduction in greenhouse gas emissions under the United Nations Framework Convention on Climate Change (UNFCCC).
- Carbon budgets are constructed on the premise that there is a near-linear relationship between rising global temperatures and the level of cumulative atmospheric CO₂.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q31. Consider the following statements regarding "All-Season Ozone Hole":

- All-season ozone hole is defined as an area of ozone loss larger than 75% compared with the undisturbed atmosphere.
- Under the Kigali Agreement, India will complete its phase down of HFCs with cumulative reduction of 50% by 2047.

Which of the statements given above is/are incorrect?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

Q32. Consider the following statements regarding methane:

- It is the third-most abundant anthropogenic greenhouse gas in the atmosphere, after carbon dioxide and Nitrous oxide.
- Methane is more than 25 times as potent as carbon dioxide at trapping heat in the atmosphere.
- The Global Methane Pledge was launched at the United Nations Framework Convention on Climate Change COP21 (Paris) that aims to cut down methane emissions by up to 30% from 2020 levels by the year 2030.

Which of the statements given above is/are correct?

- 1 only
- 2 only
- 1 and 3 only
- 1, 2 and 3

Q33. The term "Karakoram Anomaly" seen in news is related to which of the following?

- Artificial glacier
- Fast melting due to global warming
- Resistance of glaciers towards global warming
- Disappearance of glacier

Q34. With reference to Cloud Bust, consider the following statements:

- It is a short-duration, intense rainfall event over a large area.
- The energy necessary for the cloudburst comes from the upward motion of air.
- They are responsible for the creation of flash floods.

Which of the statements given above are correct?

- 1 and 2 only
- 2 and 3 only

- (c) 1 and 3 only
- (d) All of the above

Q35. Which of the following Strategies will help to Achieve Climate Mitigation and Adaptation Simultaneously?

1. Protect Coastal Wetlands
2. Promote Sustainable Agroforestry
3. Secure Indigenous Peoples' Land Rights
4. Centralize Energy Distribution

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q36. Consider the following statements regarding "Carbon Offset":

1. Carbon offset is a way to compensate for your emissions by funding an equivalent carbon dioxide saving elsewhere.
2. India's Multi Commodity Exchange is the world's first carbon credit platform.
3. Clean Development Mechanism (CDM) under the Kyoto Protocol allows carbon offset scheme to fund greenhouse gas emissions-reducing projects in other countries.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q37. Consider the following statements regarding Carbon Tax:

1. Carbon tax is a form of pollution tax that levies a fee on the production, distribution or use of fossil fuels.

2. Carbon tax intends to promote a form of carbon pricing.
3. India does not tax carbon emissions directly.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q38. Consider the following statements:

1. A carbon sequestration is a natural or artificial reservoir that accumulates and stores some carbon-containing chemical compound for an indefinite period.
2. The process by which carbon sequestration removes carbon dioxide (CO₂) from the atmosphere is known as carbon sink.
3. Depleted oil reserves and unmineable mines are examples of artificial sinks.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) All of the above

Q39. Which of the following statements is/are correct about Blue Carbon?

1. It is sequestered in forest biomass and agricultural soils.
2. It prevents degradation and destruction and promotes restoration of the coastal ecosystem.
3. It contributes to atmospheric greenhouse gases.
4. It is the soot-like by-product of wildfires and fossil fuel consumption.

Select the correct answer using the codes given below:

- (a) 4 only
- (b) 2 only

- (c) 1 and 4 only
- (d) 1, 2 and 3 only

Q40. It is the biggest overall contributor to the greenhouse effect and humans are not directly responsible for emitting gas in quantities sufficient to change its concentration in the atmosphere. It can persist in the air for centuries. Its amount can be increased by other greenhouse gasses and its amount is strongly related to them. It cycles through the atmosphere very quickly.

Identify from the options given below:

- (a) Carbon Dioxide
- (b) Methane
- (c) Fluorinated gasses
- (d) Water Vapor

Q41. With reference to Global Warming Potential, consider the following statements:

1. It is a relative measure of how much heat a greenhouse gas traps in the atmosphere.
2. For a gas, it is a measure of the total energy that a gas absorbs over a particular period of time as compared to carbon monoxide.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q42. Consider the following with reference to global warming:

1. As per Intergovernmental Panel on Climate Change (IPCC) report, increase in global warming will result in the reduction of Arctic permafrost.
2. It is resulting in volcanic ejections, unseasonal precipitation, etc.

3. Kaziranga National Park is releasing more carbon than it is absorbing.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q43. What are the Key Findings of the Sixth Assessment Report of Intergovernmental Panel on Climate Change (IPCC)?

1. This emissions growth has been driven mainly by CO₂ emissions from the burning of fossil fuels and the industrial sector, as well as methane emissions.
2. Climate change is increasing vector-borne and water-borne diseases such as malaria or dengue, particularly in sub-tropical regions of Asia.
3. The report identifies India as one of the vulnerable hotspots, with several regions and important cities facing very high risk of climate disasters such as flooding, sea-level rise and heat-waves.

Select the statements given above is/are correct:

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q44. Consider the following statements regarding Carbon Footprint:

1. A carbon footprint is the total amount of greenhouse gases that are generated by human actions.
2. It tracks the use of productive surface areas.
3. Earth Overshoot Day is published by Global Footprint Network annually.

Which of the statements given above is/are correct?

- (a) 1 and 2 only

- (b) 3 only
 (c) 1 and 3 only
 (d) All of the above

Q45. To address the Climate Change, which of the following are the actions taken by India:

1. National Adaptation Fund for Climate Change (NAFCC) for preparing and updating climate scenarios, assessing vulnerability and climate impact assessment.
2. The Government of India created the National Clean Energy Fund (NCEF) in 2020 with the sole purpose of financing and promoting clean energy initiatives.
3. The International Solar Alliance was launched jointly by India and France.

Which of the statements given above are correct?

- (a) 1 and 2 only
 (b) 2 and 3 only
 (c) 1, 2 and 3
 (d) 3 only

Q46. Recently 'Evil twin of Climate Change' was in news, associated with which of the following effect of Climate change:

- (a) Ozone depletion
 (b) Ocean acidification
 (c) Melting of glaciers
 (d) Heat Waves

Q47. Consider the following statements regarding National Adaptation Fund for Climate Change (NAFCC):

1. The Ministry of Finance has established the National Adaptation Fund for Climate Change for scaling-up Climate Change adaptation interventions.
2. NAFCC was established in 2015 as a centrally sponsored scheme to meet the cost of adaptation to climate change for the Himalayan states only.

3. SIDBI has been designated as National Implementing Entity (NIE) for implementation of adaptation projects under NAFCC.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
 (b) 1 and 3 only
 (c) 2 only
 (d) 1, 2 and 3

Answer Key					
Q.1)	Ans: D	Q.19)	Ans: B	Q.37)	Ans: D
Q.2)	Ans: A	Q.20)	Ans: D	Q.38)	Ans: C
Q.3)	Ans: D	Q.21)	Ans: C	Q.39)	Ans: B
Q.4)	Ans: C	Q.22)	Ans: A	Q.40)	Ans: D
Q.5)	Ans: B	Q.23)	Ans: B	Q.41)	Ans: A
Q.6)	Ans: B	Q.24)	Ans: B	Q.42)	Ans: D
Q.7)	Ans: C	Q.25)	Ans: B	Q.43)	Ans: D
Q.8)	Ans: B	Q.26)	Ans: B	Q.44)	Ans: C
Q.9)	Ans: C	Q.27)	Ans: D	Q.45)	Ans: D
Q.10)	Ans: A	Q.28)	Ans: D	Q.46)	Ans: B
Q.11)	Ans: D	Q.29)	Ans: C	Q.47)	Ans: D
Q.12)	Ans: B	Q.30)	Ans: B		
Q.13)	Ans: A	Q.31)	Ans: C		
Q.14)	Ans: C	Q.32)	Ans: B		
Q.15)	Ans: B	Q.33)	Ans: C		
Q.16)	Ans: D	Q.34)	Ans: B		
Q.17)	Ans: D	Q.35)	Ans: B		
Q.18)	Ans: C	Q.36)	Ans: A		

Climate Change Organizations

Q1. Consider the following statements about the Convention on the Conservation of Migratory Species of Wild Animals, held in 2020 in India:

1. It works under the aegis of the United Nations Environment Programme.
2. Gandhinagar declaration is related to it.
3. India has recently become a party to this Convention.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q2. Consider the following statements about the United Nations Convention to Combat Desertification (UNCCD):

1. The UNCCD Convention is sister convention of the Convention on Biological Diversity.
2. No Conference of Parties to the UNCCD has ever been held in India till date.
3. The Bonn Challenge is related to the United Nations Convention to Combat Desertification.

Which of the statements given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 2 and 3 only
- (d) All of the above

Q3. In context of Montreux Record, consider the following statements:

1. It is maintained under the UNEP for keeping a record of wetland sites on the List of Wetlands of International Importance.

2. Chilika Lake, Odisha was the first Indian site to be placed on Montreux Record.
3. India has more than 20 wetlands sites placed under the Montreux Record.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 3 only

Q4. Consider the following Statements:

1. Bio-accumulation is one of the key features of Persistent Organic Pollutants.
2. Endosulfan is listed under the Stockholm Convention on Persistent Organic Pollutants.
3. The Union Cabinet has approved the ratification of all the chemicals listed under Stockholm Convention.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q5. With reference to the World-Wide Fund for Nature, consider the following statements:

1. The Living Planet Report is released by the World-Wide Fund for Nature.
2. Earth Hour is an annual initiative of the World Wildlife Fund for Nature (WWF) that encourages people to plant 100 trees in their immediate surroundings.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only

- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q6. In the context of International Trade in Endangered Species, Consider the following statements:

1. TRAFFIC is a joint program of WWF and the CITES.
2. Species may be added to or removed from Appendix I and II, of CITES only by the UN general assembly.
3. All the schedules of the Wildlife Protection Act, 1972 offer absolute protection with the highest penalties to conserve wildlife from illegal poaching and hunting.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q7. Consider the following statements about International Solar Alliance:

1. All member states of the UN can join the International Solar Alliance.
2. The Visvesvaraya award and Diwakar award are related to it.
3. ISA CARES is an initiative for the deployment of solar energy in the healthcare sector

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) All of the above.

Q8. Consider the following statements about United Nations Framework Convention on Climate Change (UNFCCC):

1. It was signed in 1972 at the United Nations Conference on the Human Environment held in Stockholm and entered into force in 1974.
2. UNFCCC secretariat is located in Bonn, Germany which provides technical expertise and assists in the analysis and review of climate change information reported by Parties.
3. Conference of the Parties is the supreme decision-making body of the Convention which meets every two years.
4. Paris Agreement is a non-legally binding international treaty on climate change which was adopted at 21st Conference of Parties in Paris in 2015.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 2 only
- (c) 3 and 4 only
- (d) 1, 3 and 4 only

Q9. Consider the following statements regarding REDD+ (Reducing Emissions from Deforestation and Forest Degradation plus):

1. REDD+ with the “plus” referring to the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries.
2. It is a collaborative programme of the Food and Agriculture Organization of the United Nations (FAO), and the United Nations Environment Programme (UNEP), created in 2018.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2

(d) Neither 1 nor 2

Q10. Consider the following statements regarding Climate Change Performance Index (CCPI):

1. The Index, published annually by the United Nations Environment Programme (UNEP) since 2005, is an independent monitoring tool for tracking countries' climate protection performance.
2. The methodology of the index was revised to incorporate the 2015 Paris Agreement with the goal to limit global warming to well below 2°C or even to 1.5°C.
3. It assesses countries' performance in three categories namely Energy Use, Greenhouse gas Emission, and Climate Policy.

Which of the statements given above are incorrect?

- (a) 1 and 3 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) None of the above

Q11. Consider the following statements regarding Infrastructure for Resilient Island States initiative (IRIS):

1. Infrastructure for Resilient Island States initiative was launched by Norway, Sweden and Denmark and included the participation of leaders of small island nations such as Fiji, Jamaica and Mauritius.
2. IRIS initiative was launched in 2015 United Nations Climate Change Conference, COP 21 that was held in Paris, France.
3. IRIS will be a part of the Coalition for Disaster Resilient infrastructure (CDRI), which was launched by India at the UN Climate Action Summit.

Which of the statements given above is/are correct?

- (a) 2 and 3 only
- (b) 2 only

(c) 3 only

(d) 1 and 3 only

Q12. It was adopted on 11 December 1997. It operationalizes the United Nations Framework Convention on Climate Change by committing industrialized countries and economies in transition to limit and reduce greenhouse gasses (GHG) emissions in accordance with agreed individual targets. It is based on the principles and provisions of the Convention and follows its annex-based structure. It only binds developed countries, and places a heavier burden on them under the principle of "common but differentiated responsibility and respective capabilities", because it recognizes that they are largely responsible for the current high levels of Green House Gas emissions in the atmosphere.

Identify the Protocol from the options given below:

- (a) Kyoto Protocol
- (b) Montreal Protocol
- (c) Cartagena Protocol
- (d) Nagoya Protocol

Q13. Consider the following statements with reference to the Global Environment Facility (GEF):

1. It was set up at the Vienna Convention.
2. It was set up to solely focus on Ozone Depletion and Persistent Organic Pollutants.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q14. Which of the following best describes the purpose of the 'Climate Equity Monitor' seen frequently in news?

- (a) Its goal is to keep track of how much money Parties are spending to boost forest carbon stocks under the UN-REDD.
- (b) Its goal is to keep track of Annex-I Parties' performance under the UNFCCC, based on the climate convention's founding principles.
- (c) Its goal is to increase research and develop new methodologies in order to determine UNFCCC targets.
- (d) Its purpose is to keep track of countries' UN-REDD emission objectives.

Q15. Which of the following statements is/are correct regarding the United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties (COP 26) in Glasgow?

- 1. The International Mechanism for Loss and Damage was established during COP26.
- 2. India and the United Kingdom created the Beyond Oil and Gas Alliance (BOGA) to phase out oil and gas production at the meeting.
- 3. The Glasgow Climate Pact for the first time mentioned the need to phase out coal and fossil fuel subsidies.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q16. Consider the following statements regarding the Bonn Climate Change Conference, which recently took place under the United Nations Framework Convention on Climate Change (UNFCCC) meet?

- 1. In the Bonn Climate Change Conference, first technical dialogue of the Global Stocktake was considered.
- 2. "Global Goal on Adaptation" (GGA) which aims to reduce vulnerability for the birds

especially targeting the endangered vultures was discussed under the conference.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q17. Consider the following Statements regarding Adaptation Fund for Climate Change:

- 1. It aims to finance adaptation projects and programmes in developing country Parties to the Paris Agreement, and was established in the 2015 United Nations Framework Convention on Climate Change, Conference COP 21.
- 2. The Adaptation Fund is supervised and managed by the United Nations Environment Programme.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q18. The 26th Conference of the Parties (COP) of the United Nations Framework Convention on Climate Change (UNFCCC) was concluded in Glasgow. In the context of this, look at the following statements:

- 1. 'Breakthrough Agenda' is a voluntary declaration to halt and reverse forest loss and land degradation by 2030
- 2. India is a non-signatory to the 'Global Methane Pledge', a voluntary non-binding agreement signed during COP-26
- 3. 'E- Amrit' a portal launched by India during the summit, to launch awareness program for E- waste recycling

Which of the following statements given above is/are *incorrect*?

- (a) 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q19. The term 'Climate equity' was raised by India during the recently concluded 'Bonn Climate conference'. Which of the following statements is the most closely linked with 'Climate equity':

- (a) It is just division, fair sharing, and equitable distribution of the benefits and burdens of climate change and responsibilities to deal with climate change.
- (b) It ensures the just distribution of the benefits of climate protection efforts and alleviates unequal burdens created by climate change.
- (c) It is a principle which means that different countries have different capabilities and responsibilities to address cross-border environmental issues such as climate change.
- (d) It describes a country, or world, in which no single group or community faces disadvantages in dealing with environmental hazards, disasters, or pollution.

Q20. With reference to Intergovernmental Panel Climate Change (IPCC), Consider the following statements:

1. It was set up by the World Meteorological Organisation and the United Nations Environment Programme.
2. Recently released Sixth Assessment Report (AR6) is about climate change impacts, risks and vulnerabilities, and adaptation options.
3. As per the latest Intergovernmental Panel on Climate Change (IPCC) report, Chennai is at high risk of sea-level rise and flooding.

Which of the statements given above are correct?

Answer Key

Q.1) Ans: A	Q.11) Ans: C
Q.2) Ans: B	Q.12) Ans: A
Q.3) Ans: C	Q.13) Ans: D
Q.4) Ans: A	Q.14) Ans: B
Q.5) Ans: A	Q.15) Ans: B
Q.6) Ans: D	Q.16) Ans: A
Q.7) Ans: D	Q.17) Ans: C
Q.8) Ans: B	Q.18) Ans: B
Q.9) Ans: A	Q.19) Ans: B
Q.10) Ans: A	Q.20) Ans: A

Environmental Organizations and International Environmental Conventions

Q1. It is an autonomous institution of the Ministry of Environment, Forest and Climate Change (MoEFCC), established in 1982. It is an internationally acclaimed institution, which offers a training program, academic courses and advisory in wildlife research and management. Its most significant publication has been 'Planning wildlife and protected area network for India'. The Finance Ministry is planning to divest its status as an autonomous body.

The above passage best describes which of the following environmental organizations of India?

- (a) The Energy and Resources Institute (TERI).
- (b) Wildlife trust of India (WTI).
- (c) The Bombay Natural History Society (BNHS).
- (d) Wildlife Institute of India (WII).

Q2. Which of the following statements is incorrect with reference to the National Board for Wildlife (NBWL)?

- (a) The Minister of Environment, Forests and Climate Change is the ex officio chairperson of the NBWL.
- (b) It is a statutory body constituted under Section 5A of the Wildlife (Protection) Act, 1972 (WLPA).
- (c) The members of the National Board for Wildlife also contain members from various NGOs.
- (d) The NBWL may constitute a standing committee at its discretion.

Q3. With reference to the Wildlife Institute of India, consider the following statements:

- 1. The Wildlife Institute of India (WII) was established under the Ministry of Agriculture.
- 2. The Union Minister of MOEFCC is the Chairman of the governing body of WII.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q4. Consider the following statements regarding Commission for Air Quality Management (CAQM):

- 1. It is an executive body.
- 2. It will complement the functioning of the Environmental Pollution (Prevention and Control) Authority (EPCA).
- 3. The commission will have an exclusive jurisdiction over the National Capital Region (NCR) in matters of air pollution.

Select the incorrect statement(s) from the code given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) All of the above

Q5. Consider the following statements regarding National Board for Wildlife (NBWL):

- 1. Its role is advisory in nature, though it is a statutory organization.
- 2. Primary function of the Board is to promote the conservation and development of wildlife and forests.
- 3. No alteration of boundaries in national parks and wildlife sanctuaries can be done without approval of the NBWL.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q6. The Biodiversity Finance Initiative (BIOFIN) is launched by which of the following organizations?

- (a) International Union for Conservation of Nature.
- (b) United Nations Development Program.
- (c) World Wide Fund for Nature.
- (d) United Nations Educational, Scientific and Cultural Organization.

Q7. With reference to the Animal Welfare Board of India, consider the following statements:

1. It is a statutory body under the Ministry of Environment, Forest and Climate Change.
2. The Animal Welfare Board of India was set up under the provisions of National Board for Wildlife in India with the union Minister of Environment, Forest and Climate Change as its Chairman.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q8. Consider the following statements with reference to 'Biodiversity Samrakshan Internship Programme':

1. It is a joint initiative of the National Biodiversity Authority and the United Nations Development Programme.
2. The interns selected will have to technically assist the State Biodiversity Boards/UTs Biodiversity Council.

Which of the above-mentioned statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q9. "Not All Animal Migrate by Choice" campaign is launched by?

- (a) Wildlife Crime Control Bureau of India and UN Environment
- (b) International Union of Conservation of Nature and World-Wide Fund for Nature
- (c) Wildlife Crime Control Bureau and Interpol
- (d) Ministry of Environment Forest & Climate change and Border Security Force.

Q10. Consider the following statements with reference to Wildlife Crime Control Bureau:

1. The Wildlife Crime Control Bureau is a statutory multi-disciplinary body under the MoEFCC.
2. X ray images of Wildlife products catalogue were released by WCCB to curb the smuggling of contraband wildlife products.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q11. Which among the following are recognized Globally Important Agricultural Heritage Systems sites in India?

1. Darjeeling Himalayan Tea Estates
2. Kuttanad Below Sea Level Farming System of Kerala.
3. Nagpur Orange Cultivation
4. Koraput Traditional Agriculture of Odisha.
5. Pampore Saffron Heritage of Kashmir.

Select the correct answer from the options given below:

- (a) 1, 2, 3 and 5 only
- (b) 2, 4 and 5 only
- (c) 1, 3, 4 and only
- (d) 1, 2, 3, 4 and 5

Q12. The Union Ministry of Environment Forest and Climate Change recently released the 'Vision 2021- 2031 Plan' in reference to?

- (a) Restoring and protecting the Biodiversity of the West Ghats.
- (b) Phased introduction of Bio-Fuels for the countries transport sector
- (c) Limiting the use of Hydrofluorocarbons as per the provisions of Kyoto Protocol
- (d) To upgrade the Zoos in India to global standards and strengthen the Central Zoo Authority.

Q13. Consider the following statements with respect to 'Urban Services Environmental Rating System' (USERS)?

- 1. USERS is aimed at improving basic services like water supply, sewerage and solid waste.
- 2. It is funded by the United Nations Development Programme and executed by the Ministry of Environment and Forest and Climate Change.

Which of the above statements is/are correctly mentioned?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q14. Which of the following statements is incorrect with respect to 'International Energy Agency'?

- (a) The International Energy Agency is a Paris-based autonomous Non-Governmental Organization.
- (b) It was established under the framework of the Organization for Economic Co-operation and Development (OECD) in 1974 in the wake of the 1973 oil crisis.
- (c) It is best known for the publication of its annual World Energy Outlook.

- (d) India became an Associate member of the International Energy Agency.

Q15. Consider the following statements regarding Convention on the Conservation of Migratory Species of Wild Animals:

- 1. The agreement was signed under the auspices of the Intergovernmental Panel on Climate Change and is concerned with conservation of wildlife and habitats on a global scale.
- 2. Bonn Convention was established for the conservation and management of terrestrial and avian migratory species and the aquatic migratory species are covered under Nairobi convention
- 3. India hosted Conference of Parties (COP) 13 to Bonn Convention in 2020 and will be the President of COP to Bonn Convention till 2023.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q16. Consider the following statements regarding convention on biological diversity:

- 1. The Convention was opened for signature at the Earth Summit in Rio de Janeiro in 2002 and entered into force in 2003.
- 2. The Cartagena Protocol is a legal framework for implementation of Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization.
- 3. The Nagoya protocol seeks to protect biological diversity from the potential risks posed by genetically modified organisms resulting from modern biotechnology.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q17. Consider the following statements regarding CITES (the Convention on International Trade in Endangered Species of Wild Fauna and Flora):

1. CITES was conceptualized in 1963 at a meeting of the United Nations Environment Programme that came into force in 1975.
2. CITES is neither legally binding on the Parties nor it take the place of national laws.
3. Species that are in danger of extinction are kept in Appendix 3 of CITES.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) None of the above

Q18. Consider the following pairs regarding Wetlands of international importance under Ramsar convention:

Ramsar sites	States
1. Ansupa Lake	Jammu Kashmir
2. Chitrangudi Bird Sanctuary	Andhra Pradesh
3. Kanjirankulam Bird Sanctuary	Tamil Nadu
4. Thane creek	Gujarat

How many pairs given above is/are correctly matched?

- (a) Only one pair
- (b) Only two pairs
- (c) Only three pairs
- (d) All four pairs

Q19. It is a sourcebook that maintains an international list of all endangered animal and plant species. The book helps us in providing complete information for research, studies and also for monitoring the programs on rare and endangered species and their habits. It is maintained by the International Union for Conservation of Nature.

Identify the Book from the options given below:

- (a) Green Data Book
- (b) Black Data Book
- (c) Red Data Book
- (d) Blue Data Book

Q20. Consider the following pairs regarding the report and the organisations which publishes it:

Reports	Organisations
1. Greenhouse Gas bulletin.	Intergovernmental Panel on Climate Change
2. Emissions gap report.	United Nations Environment Programme
3. State of the Global Climate report.	World Wide Fund for Nature
4. Global assessment of forest biodiversity	International Union for Conservation of Nature

Which of the pairs given above is /are incorrectly matched?

- (a) 1, 3 and 4 only
- (b) 3 only
- (c) 1 and 4 only
- (d) 1 and 2 only

Q21. As the leading global environmental authority, United Nations Environment Programme (UNEP) administers and provides secretariat functions for which of the following multilateral environmental agreements and other entities?

1. Minamata convention on mercury
2. Convention on Biological Diversity
3. Convention on the Conservation of Migratory Species of Wild Animals
4. Vienna convention on protection of ozone layer

Select the correct answer using the code given below:

- (a) 1 and 4 only
- (b) 2, 3 and 4 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

Q22. Consider the following statements regarding World Wide Fund for Nature (WWF):

1. It is a specialised agency of the United Nations that works in the field of wilderness preservation and the reduction of human impact on the environment.
2. It was founded as a result of the United Nations Conference on the Human Environment in June 1972 and has its headquarters in Nairobi, Kenya.
3. It mainly focuses on the protection of endangered species while Pollution, Climate change issues are kept out of its ambit.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) None of the above

Q23. Consider the following statements regarding Kigali Amendment to Montreal Protocol:

1. The Kigali Agreement was adopted in 2016 to phase-down hydrofluorocarbons (HFCs).
2. It is a legally binding agreement designed to create rights and obligations in international law.

3. India is not a signatory to this agreement.
4. It divides nations into 3 groups with a four-step path to achieve 80% reduction in HFCs consumption by 2047.

Which of the statements given above is/are correct?

- (a) 1 and 4 only
- (b) 3 only
- (c) 2 and 4 only
- (d) 1, 2 and 4 only

Q24. Which of the following International Treaties was designed to reduce the movements of hazardous waste between nations, and specifically to prevent transfer of hazardous waste from developed to less developed countries (LDCs)?

- (a) Rotterdam convention
- (b) Basel Convention
- (c) Stockholm convention
- (d) Bonn Convention

Q25. 'The Indian National Centre for Ocean Information Services (INCOIS)' has prepared a Coastal Vulnerability Index (CVI) for Indian coasts. In the context of this consider the following statements for (INCOIS):

1. INCOIS is an autonomous organisation under the Ministry of Environment, Forest and Climate Change (MoEFCC).
2. INCOIS provides near-real time information on the spread of phytoplankton blooms over the North Indian Ocean.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q26. In 2022, India has designated many new wetlands of international importance under the Ramsar Convention. In the context of this, consider the following statements:

1. Ramsar Sites which have a diversity of wildlife are included in Montreux Records.
2. Ramsar Convention is an intergovernmental treaty that provides the framework for the conservation and wise use of wetlands and their resources but does not provide financial aid.
3. As per Ramsar convention, Wetlands are those areas which are permanently or temporarily flooded with static or flowing water.

Which of the following statements given above is/are *incorrect*?

- (a) 1 and 3 only
- (b) 1 only
- (c) 1 and 2 only
- (d) 2 and 3 only

Q27. Which of the following statements is/are correct regarding the “BUNKER” Convention?

1. It is an international treaty listed and administered by the United Nation convention on laws of the Sea (UNCLOS).
2. It was adopted to ensure that the effective compensation is available to the persons who suffer damage caused by spills of oil, when carried as fuel in ships' bunkers.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q28. Consider the following statements regarding the “Wildlife Crime Control Bureau”:

1. It is a non-statutory body that functions in the Indian Ministry of Environment, Forest and Climate Change that helps curb organized wildlife crimes in the country.
2. It is the designated nodal agency for the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) related enforcement.
3. It is mandated to collect and collate intelligence related to the organized wildlife crime activities.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q29. Which of the following statements are correct regarding the “Convention on the Conservation of Migratory Species of Wild Animals (CMS)”?

1. It is an environmental treaty administered by the United Nations Environment Programme.
2. Currently, Sri Lanka has taken over its Presidency from India for the next 3 years, till 2023.
3. The Gandhinagar Declaration was adopted during the COP13.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q30. Consider the following statements regarding One Ocean Summit:

1. The One Ocean Summit was organised by France in cooperation with the United Nations and the World Bank.

2. In the Summit UNESCO has announced that the whole seabed will be mapped by 2030.
3. The objective of the Summit is to mobilise the international community to take tangible action towards exploration of deep ocean resources.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q31. Consider the following statements regarding India's Climate Hazard and Vulnerability Atlas:

1. Climate Hazard and Vulnerability Atlas of India is launched by the World Meteorological Organization.
2. Climate vulnerability maps are prepared based on the disaster data from the annual publication of India Meteorological Department "Annual Disastrous Weather Reports".
3. A Web version of Climate Hazards and Vulnerability Atlas of India for the thirteen most hazardous meteorological events is made by using Global Positioning System (GPS) tools.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 2 and 3 only

Q32. Consider the following statements regarding UN Ocean Conference:

1. The UN Ocean conference 2022 is aligned to SDG (Sustainable Development Goals) 14 and stresses on the critical need for scientific

knowledge and marine technology to build ocean resilience.

2. The Ministry of Environment, Forest and Climate Change led the Indian delegation at the UN Ocean Conference.
3. UN Secretary-General Antonio Guterres had declared an "ocean emergency" at the UN Ocean Conference 2022.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q33. Which of the following statements correctly explain the United Nation 30×30 Goals?

- (a) Protecting 30% Land and Ocean by 2030.
- (b) Reduction of 30% GHGs emissions in next 30 years.
- (c) Restoring 30% degraded forest by 2030.
- (d) Reducing 30% wildlife crimes by 2030.

Q34. Consider the following statements regarding Food and Land Use Coalition:

1. Food and Land Use Coalition is launched by the Food and Agriculture Organization to transform food and land use systems.
2. The Coalition has also partnered with global initiatives including Food Systems Dialogues and Nature4Climate.
3. The State of Food and Agriculture is a report published by the Food and Land Use Coalition.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1 and 3 only

Q35. Consider the following statements regarding the Minamata Convention (MC) on Mercury?

1. Minamata Convention on Mercury, adopted in 2013 at Geneva, is the world's first non-legally binding treaty to protect human health and environment from adverse effects of mercury.
2. India is the founding member of the Minamata Convention.
3. The convention develops practical tools and notification and information-sharing systems for monitoring and managing trade in mercury.
4. The COP4 to Minamata convention held in Nagoya introduced a global declaration that calls on parties to the Minamata convention to tackle global illegal trade of mercury.

Which of the statements given above is/are correct?

- (a) 1, 2 and 4 only
- (b) 2 and 3 only
- (c) 1, 2 and 3 only
- (d) 3 only

Q36. The Global Environment Facility (GEF) serves as a financial mechanism for which of the following conventions?

1. Montreal Protocol on Substances that Deplete the Ozone Layer
2. Stockholm Convention on Persistent Organic Pollutants (POPs)
3. Minamata Convention on Mercury
4. Convention on International Trade in Endangered Species of Fauna and Flora (CITES)

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q37. Consider the following statements regarding the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES):

1. In the 18th Conference of Parties (COP) of CITES, India proposed inclusion of Rosewood from appendix II to Appendix I due to its high rate of illegal trade.
2. Wild Life (Protection) Amendment Bill 2021, is aimed at implementing "Convention on International Trade in Endangered Species (CITES) of Wild Fauna and Flora" and seeks to expand the number of species protected by the convention.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q38. Consider the following statements regarding TRAFFIC:

1. TRAFFIC is a leading non-government organisation that works as a wildlife trade and monitoring network.
2. Campaigns such as Don't buy trouble, Wanted Alive series, Eat Right Movement are initiated by TRAFFIC.
3. Currently TRAFFIC doesn't have any collaboration with the Government of India with reference to wildlife protection.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 1 and 3 only
- (c) 1 only
- (d) 1 and 2 only

Q39. Boma Technique is talked about in which one of the following situations?

- (a) Method for estimating the abundance and density of wildlife populations.
- (b) Crypto preservation technique for fishes
- (c) Urban afforestation method by turning someone's backyard into a forest
- (d) Capturing and translocating animals

Q40. Consider the following statements regarding various awareness generation programmes:

1. Earth Hour is a global movement for environmental conservation started in 2007 by World Economic Forum.
2. Earth Day is globally coordinated by EARTHDAY.ORG, Which is a non-profit organization, formerly known as Earth Day Network.
3. The UN Decade on Ecosystem Restoration runs from 2021 to 2030, is co-led by two agencies namely United Nations Development Programme and World Wildlife Fund.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 3 only
- (c) 1 and 3 only
- (d) 2 and 3 only

Q41. Consider the following statements with reference to United Nations Framework Convention on Climate Change:

1. It has been ratified by all the countries and has universal membership.
2. It is the primary multilateral treaty governing actions to combat climate change.
3. The parties to the convention meet annually in the Conference of the Parties or COP to review the progress under the convention.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 4 only
- (d) All of the above

Q42. Consider the following index and their publishers:

1. Climate Change Performance Index: World Economic Forum
2. World Energy Outlook (WEO): Germanwatch
3. Emission Gap Report: United Nations Environment Programme (UNEP)

Which of the options given above is/are incorrect?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q43. Which of the following pairs with reference to Finance Mechanisms and the organization which funds it are correctly matched?

(Fund)	(Organisation)
Special Climate Change Fund (SCCF)	Kyoto Protocol
Adaptation Fund (AF)	UNFCCC
Climate Investment Fund	World Bank
Global Environmental Facility (GEF)	Rio Earth Summit.

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only
- (b) 3 and 4 only

- (c) 1, 2 and 3 only
 (d) All of the above

Q44. With reference to Ramsar Convention, consider the following statements:

1. It is an intergovernmental treaty that provides the framework for the conservation and wise use of wetlands and their resources
2. The Administrative services to the convention are provided by Bird life International.

Which of the above statements is/are correct?

- (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2

Q45. Which of the following is not the criteria for identification of wetlands of national importance under the Ramsar Convention?

- (a) If a site regularly supports 20,000 or more water birds.
 (b) If a site regularly supports 10% of the individuals in a population of one species or subspecies of waterbirds.
 (c) If a site supports a significant proportion of indigenous fish subspecies, species or families
 (d) If a site supports vulnerable, endangered, or critically endangered species; or threatened ecological communities.

Q46. Consider the following statements regarding forest restoration:

1. The Bonn Challenge was launched by the Government of India and the United Nations Environment Programme
2. UN Environment programme (UNEP) coined the term “forest landscape restoration” as a framework for managing landscapes, complementing both forest conservation and sustainable management

3. Forest landscape restoration is the process of regaining ecological functionality and enhancing human well-being across deforested or degraded forest landscapes.

Which of the statements given above is/are correct?

- (a) 1 only
 (b) 2 and 3 only
 (c) 3 only
 (d) None of the above

Q47. “Desertification and Land Degradation Atlas of India” is published by?

- (a) The Indian Space Research Organization
 (b) The Union Ministry of Agriculture and Farmers Welfare in collaboration with NITI Aayog
 (c) United Nations Environment Programme in association with the Food and Agriculture Organization.
 (d) The Union Ministry of Environment, Forest and Climate Change in collaboration with Greenpeace India.

Q48. Which of the following agreements or conventions has a bearing on Biomedical waste?

1. Basel convention
2. Stockholm convention
3. Minamata convention

Select the correct answer using the code given below:

- (a) 3 only
 (b) 2 and 3 only
 (c) 1 only
 (d) 1, 2 and 3



Answer Key

Q.1) Ans: D	Q.25) Ans: B
Q.2) Ans: A	Q.26) Ans: C
Q.3) Ans: A	Q.27) Ans: B
Q.4) Ans: B	Q.28) Ans: C
Q.5) Ans: D	Q.29) Ans: B
Q.6) Ans: B	Q.30) Ans: A
Q.7) Ans: D	Q.31) Ans: B
Q.8) Ans: B	Q.32) Ans: C
Q.9) Ans: A	Q.33) Ans: A
Q.10) Ans: C	Q.34) Ans: C
Q.11) Ans: B	Q.35) Ans: D
Q.12) Ans: D	Q.36) Ans: C
Q.13) Ans: C	Q.37) Ans: A
Q.14) Ans: A	Q.38) Ans: C
Q.15) Ans: B	Q.39) Ans: D
Q.16) Ans: D	Q.40) Ans: A
Q.17) Ans: D	Q.41) Ans: B
Q.18) Ans: A	Q.42) Ans: A
Q.19) Ans: C	Q.43) Ans: B
Q.20) Ans: A	Q.44) Ans: A
Q.21) Ans: D	Q.45) Ans: B
Q.22) Ans: D	Q.46) Ans: C
Q.23) Ans: D	Q.47) Ans: A
Q.24) Ans: B	Q.48) Ans: D

Agriculture

Q1. Which of the following statements correctly defines 'Evergreen Revolution'?

- (a) It is to increase the production of crops, double farmer's incomes, and maintain environmental sustainability by using high-yielding seeds whilst educating the farmers about informative and communicative technologies (ICT).
- (b) Revolution refers to the significant changes in agriculture when there are inventions, discoveries or new technologies implemented.
- (c) It refers to productivity improvement in perpetuity without ecological and social harm
- (d) It is the second Green Revolution with higher impetus in technological advancement for increase in crop production.

Q2. With reference to the Hybrid seed mini kits, consider the following statements:

1. The Union Ministry of Agriculture and Farmers Welfare, will distribute the hybrid seed mini kits at nominal rates all over the country.
2. The program has been started under the National Food Security Mission (NFSM) - Oil Seed and Oil Palm Scheme.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. CIM-Pitamber, recently in the news, is related to?

- (a) A High Yielding Variety of turmeric
- (b) Newly discovered fluorescent fish species from the Western Ghats.
- (c) A drug developed by the Central Drug Research Institute to prevent allergic infection due to pollen.

- (d) A Genetically Modified bacteria developed to help mitigate Polychlorinated Biphenyls pollution.

Q4. Recently the Indian Council for Agricultural Research (ICAR) has developed 'Harit Dhara' for the purpose of :

- (a) Minimizing soil pollution by using biodegradable manures.
- (b) Providing subsidies to the farmers for using solar power in post harvesting of crops.
- (c) Minimizing cattle methane emissions by developing anti-methanogenic feed supplement
- (d) Roadmap in agricultural revolution for maximizing vegetable production.

Q5. With reference to the Agriculture Infrastructure Fund, consider the following statements:

1. It is a central sector scheme to inject formal credit into farm and farm-processing based activities.
2. Federations of Farmers Producers Organizations (FPOs) and Federations of Self-Help Groups (SHGs) are eligible for financing under this scheme

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q6. Consider the following statements with reference to 'Horticulture Cluster Development Programme (CDP)':

1. It is a central sector programme of the Ministry of Agriculture and Farmers' Welfare aimed at growing and developing identified horticulture clusters to make them globally competitive.

2. Turmeric from West Jaintia Hills (Meghalay) is one of the identified products for development under this programme at the pilot phase.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q7. In the context of Indian agriculture the terms Kodo, Kutki, Kakun and Kuttu are related to

- (a) Types of spices cultivated in the state of Kerala
- (b) Varieties of millets cultivated in India.
- (c) Methodology of rice cultivation in North East India.
- (d) Varieties of rice cultivated below sea level at Kuttanad

Q8. Which of the following statements is correct with reference to Entomopathogenic fungi?

- (a) Entomopathogenic fungi are a group of fungi living in soil that infect insects by penetrating their cuticle to penetrate their bodies to eventually kill them and feed on them.
- (b) The application of entomopathogenic fungi in myco-biocontrol of insects in the agriculture sector is of immense significance because of environmental and food safety concerns.
- (c) Entomopathogenic fungi are currently used worldwide for control of a wide range of arthropod pests, particularly pests in protected crops or field crops.
- (d) All of the above statements are correct.

Q9. In the context of Indian agriculture, Ranjit Sub1, Swarna Sub1 and Bahadur Sub1, sometimes seen in the news, are related to?

- (a) Saltwater resistance rice varieties exported by Central Rice Research Institute, to the Southeast Asian countries.
- (b) Applications developed to monitor rice fields by C-DAC.
- (c) Flood resistant paddy varieties developed by Indian Agricultural Research Institute and International Rice Research Institute.
- (d) Green manure developed by the Indian Agriculture Research Institute.

Q10. Consider the following statements with respect to Biotech- Kisan:

- 1. Biotech- Kisan that aims at empowering farmers, especially women farmers is a joint initiative of the Ministry of Agriculture and Farmers Welfare and the Ministry of Rural Development.
- 2. Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) is being implemented in 15 agro-climatic zones of India in phased manner.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q11. Consider the following statements with respect to 'Operation Greens':

- 1. The scheme aims for unhindered supply of three crops (TOP): Tomato, Onion and Potato only and the issue related with price of them.
- 2. The union Ministry of Agriculture and Farmers Welfare implements the scheme.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q12. The Food and Agricultural Organization assisted project named “Technical Assistance for Development of Sustainable Agricultural Value Chains in Mizoram” is related to?

- (a) Cultivation of Birds eye chilies.
- (b) Increase the production of Ginger in the state.
- (c) Assistance to Integrated Crop Livestock Farming Systems
- (d) To support local communities in improved jhum management.

Q13. Which of the following statements correctly defines ‘Agricultural yield’?

- (a) Quantity of a crop produced per unit of land.
- (b) Total quantity of crop harvested under favorable and controlled conditions.
- (c) The weight of grain or other agricultural product, at some agreed standard moisture content, per unit of land area harvested per crop
- (d) It is the yield measured in money produced per unit of land

Q14. Which of the following statements is incorrect with respect to the system of fogponics in agriculture?

- (a) It is a sub-technique of aeroponics where fog is used to create a constant nutrient-rich environment for plant roots.
- (b) The plants get the oxygen from the water oxygenated by an air pump in this technique.
- (c) The process of fogponics is monitored through Artificial Intelligence induced programming.
- (d) None of the above statement

Q15. With reference to the “Green – Ag: Transforming Indian Agriculture for global environment benefits and the conservation of critical biodiversity and forest landscapes’ project, which of the following statements is incorrect?

- (a) The project aims to catalyze transformative change for India’s agricultural sector to support achievement of national and global environmental benefits and conserve critical biodiversity and forest landscapes.
- (b) The Ministry of Agriculture & Farmers Welfare launched the project with collaboration with Food and Agriculture Organization and assisted by the Global Environment Facility (GEF)
- (c) Keibul Lamjao National Park of Manipur is designated as one of the conservation-value landscapes under this project.
- (d) None of the above statements is incorrect.

Q16. Recently in the news, PUSA- FSF developed by Indian Agricultural Research Institute (IARI), is related to?

- (a) High Yielding Variety of fodder variety for cattle that can grow in minimum water requirement.
- (b) Mechanism for in-situ management of paddy stubble for Delhi -NCR region.
- (c) The on-farm green energy refrigeration system.
- (d) Funds for agricultural focused start- ups.

Q17. Consider the following statements with reference to Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sectors Rejuvenation (RKVY-RAFTAAR) scheme:

1. It is aimed at strengthening infrastructure in Agriculture and Allied sectors to promote Agripreneurship and Agribusiness by facilitating financial aid and nurturing a system of business incubation.
2. Funds granted under the (RKVY-RAFTAAR) scheme are directly transferred to the beneficiaries’ bank account.

Which of the above statements is/are correct?

- (a) 1 only

- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2.

Q18. Consider the following statements with reference to the 'Certified Jute Seeds Programme':

1. The Union Ministry of Small and Medium Enterprises has launched a Certified Jute Seed Distribution Plan under the Improved Cultivation and Advanced Retting Exercise for Jute (Jute ICARE) Program.
2. The Improved Cultivation and Advanced Retting Exercise for Jute (Jute – ICARE) was launched in West Bengal and Assam with an aim to double the jute farmers income.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q19. Consider the following statements with reference to the 'National Bee Board' (NBB):

1. NBB works under the aegis of the Union Ministry of Medium and Small Enterprises in collaboration with Ministry of Tribal Affairs, aims at preserving the traditional way of Beekeeping and honey production in India.
2. The Union Minister of Medium and Small Enterprises is the ex- officio chairman of the NBB.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q20. Which of the following statements is not correctly mentioned with respect to the 'Maitri Incubation Programme'?

- (a) The Pusa Krishi Incubator, of ICAR- Indian Agricultural Research Institute launched the Maitri Incubation Programme.
- (b) It is a six Months Mentoring Program promoting agri start-ups with innovative ideas between India & other BRICS countries.
- (c) Only agritech startups were selected on the basis of Startup India guidelines under this programme and will be mentored by experts along with access to global markets.
- (d) None of the above statements are incorrect.

Q21. Consider the following statements with reference to the 'Madhu Kranti Portal':

1. Madhu Kranti portal is an initiative of the National Bee Board under the National Beekeeping & Honey Mission (NBHM) with an objective to maintain the quality of honey and also to prevent its adulteration.
2. The technical partner for development of this digital platform is Indian Bank.

Which of the above statements is/are correctly mentioned?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q22. Consider the following statements regarding Sustainable Agriculture Policy Action Agenda:

1. The Sustainable Agriculture Policy Action Agenda was among the highlight action pledges decided by the participating countries in 2018 at COP24 of UNFCCC in Katowice, Poland.
2. 27 countries have signed this action agenda and India has opted out of joining this initiative.

3. World Bank committed to spend \$25 billion in climate finance annually till 2025 through its Climate Action Plan.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) None of the above

Q23. How is organic farming different from Natural farming?

1. In natural farming, organic fertilizers and manures like compost, vermicompost, cow dung manure, etc. are used whereas in organic farming, neither chemical nor organic fertilizers are added to the soil.
2. Basic agro practices like plowing, tilling, mixing of manures, weeding, etc. are performed in organic farming whereas decomposition of organic matter by microbes and earthworms is encouraged in natural farming
3. Natural farming is still expensive due to the requirement of bulk manures, and it has an ecological impact on surrounding environments; whereas, organic agriculture is an extremely low-cost farming method, completely molding with local biodiversity.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 3 only
- (d) 1, 2 and 3

Q24. Consider the following statements regarding the system of rice intensification:

1. While traditional sowing requires continuous flooding of the field, System of rice intensification needs only intermittent irrigation.

2. Unlike Direct seeding of rice method, System of Rice intensification is not suitable for all types of soil.
3. The number of seeds required to make a nursery in system of rice intensification is higher than that of traditional method of rice cultivation.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 1 only
- (c) 3 only
- (d) 1, 2 and 3

Q25. Consider the following statements regarding the lavender cultivation in India:

1. Purple Revolution launched by the Ministry of Agriculture through the Indian Council of Agricultural Research (ICAR) aims at increasing lavender cultivation in Jammu and Kashmir.
2. Aroma Mission launched by Ministry of Commerce provides planting material, distillation units and training to farmers in extraction of lavender oil.
3. Northeast region saw the successful cultivation of saffron for the first time in Yangang village of South Sikkim.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 3 only
- (c) 1, 2 and 3
- (d) None of the above

Q26. Consider the following statements regarding Agricultural Emissions:

1. As per National Greenhouse Gas Inventory, Rice cultivation is the highest source of Green House Gas emissions in Indian agriculture.
2. Paddy fields are anthropogenic sources of atmospheric nitrous oxide (N_2O) and

methane (CH_4). Which are powerful greenhouse gases.

3. The intermittent flooding or intermittent irrigation of rice reduces water, methane and nitrous oxide emissions.

Which of the statements given above is/are correct?

- (a) 1, 2 and 3
- (b) 1 and 3 only
- (c) 2 only
- (d) 3 only

Q27. "Scaling Solar Applications for Agriculture Use" Which focuses on providing greater energy access and a sustainable irrigation solution to farmers through deployment of Solar Water Pumping Systems in member countries, is an initiative of Which among the following organisations?

- (a) Asian Development Bank
- (b) World Bank
- (c) International Renewable Energy Agency
- (d) International Solar Alliance

Q28. Consider the following statements regarding International Crops Research Institute for the Semi-Arid Tropics ICRISAT:

- 1. It is a non-profit, non-political organization that conducts agricultural research for development in the drylands of Asia and sub-Saharan Africa.
- 2. India has granted a special status to ICRISAT as a UN Organization operating in the Indian territory making it eligible for special immunities and tax privileges.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q29. Consider the following statements regarding various characteristics of tillage in agriculture:

- 1. Tillage is done to obtain ideal conditions for seed germination, seedling establishment and growth of crops.
- 2. Tillage helps to control water runoff and soil erosion from the field.
- 3. Zero Tilled soil is homogeneous in structure with more earthworm as compared to tilled soil.
- 4. Zero Tillage is an evolutionary concept Which is not practised in India presently.

Which of the statements given above is/are correct?

- (a) 1, 2 and 3 only
- (b) 2, 3 and 4 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

Q30. Consider the following statements regarding various cropping method practiced in India:

- 1. Growing two or more crops simultaneously with distinct row arrangement on the same field at the same time is called mixed cropping.
- 2. Growing of two or more crops simultaneously intermingled without row arrangement is known as inter-cropping.
- 3. Sugarcane and Banana are examples of Ratoon cropping.

Which of the statements given above is/are incorrect?

- (a) 3 only
- (b) 2 and 3 only
- (c) 2 only
- (d) 1 and 2 only

Q31. Consider the following statements in the context of 'Permaculture' and 'Organic Farming':

1. Organic farming creates an energy loop whereas a permaculture site acts as an energy source.
2. Organic farming focuses on a holistic balance between the outdoor and the indoor environment in a harmonious and natural way.
3. Permaculture focuses on mostly growing annuals, such as corn, rice, legumes, and other vegetables whereas Organic farming concentrates more on perennials like artichokes, asparagus, and rhubarb, fruit and nut trees, and berry bushes.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

Q32. In the context of 'Climate Smart Agriculture', consider the following statements:

1. The concept of 'Climate Smart Agriculture' was developed by the Food and Agriculture Organization (FAO).
2. Climate Smart Agriculture is based on 3 main pillars namely 'Increase Productivity', 'Reduce emission' and 'decrease input subsidy'.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q33. Consider the following statements regarding crops:

1. Tea needs well-drained loamy soils and gentle slopes.

2. Jute grows well on alluvial soil and requires high temperature, heavy rainfall and humid climate.
3. Cotton requires high temperature, light rainfall, 180 frost-free days and bright sunshine for its growth.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q34. Which of the following statements is/are correct regarding "Regenerative Agriculture"?

1. It describes farming and grazing practices that reverse climate change by rebuilding soil organic matter and restoring degraded soil biodiversity.
2. It is dynamic and holistic, incorporating permaculture and organic farming practices.

Select the correct answer using the code given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q35. Consider the following statements regarding Chickpea:

1. The Chickpea Pan Genome initiative is led by the Food and Agriculture Organization.
2. Grown in more than 50 countries, chickpea is the world's third-most cultivated legume.
3. India is the largest producer of Chickpea in the world.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only

(c) 1 and 3 only

(d) 1, 2 and 3

Q36. Consider the following statements regarding Bio Fortified Rice:

1. The first biofortified staple crop 'Golden Rice' was developed to tackle Vitamin C deficiency.
2. Bio-fortified Rice is one of the highest value-for-money interventions for micronutrient deficiency.
3. Bio-fortified Rice has no side-effects.

Which of the statements given above is/are correct?

(a) 1 and 3 only

(b) 2 only

(c) 3 only

(d) 1 and 2 only

Q37. Consider the following statements regarding the Palm Oil:

1. The world's biggest importer of Palm oil is India.
2. Recently the National Mission on Edible Oil-Oil Palm (NMEO-OP) launched with special emphasis given to North-Western states due to the conducive weather conditions in the regions.
3. It is used extensively in the production of detergents, plastics, cosmetics, and biofuels.

Which of the statements given above are correct?

(a) 1 and 2 only

(b) 2 and 3 only

(c) 1 and 3 only

(d) All of the above

Q38. Which of the following are the Major Benefits of Social Forestry?

1. Conservation of Soil and Development of wasteland
2. Augmentation of Biodiversity
3. Improving Air Quality
4. Diversion of Agricultural land to forestry

Select the correct answer using the codes given below:

(a) 1 and 4 only

(b) 1, 2 and 3 only

(c) 2 and 3 only

(d) All of the above

Q39. Which of the following are the parts of the Social Forestry programme?

1. Farm Forestry

2. Community Forestry

3. Agroforestry

4. Extension Forestry

Select the correct answer using the codes given below:

(a) 1 and 4 only

(b) 2 and 3 only

(c) 1, 2 and 3 only

(d) All of the above

Q40. Consider the following statements regarding cultivation of Millets Crop:

1. Millets are classified into major and minor millets based on the plant size.
2. Millets are rich in gluten which helps as a detoxifying agent in the body.
3. Pearl Millets is commonly known as Bajra and Finger Millets is basically known as Ragi.
4. The United Nations General Assembly (UNG(A)) has declared the year 2023 as the "International Year of Millets".

Which of the statements given above is/are correct?

(a) 1 and 4 only

(b) 2 and 3 only

(c) 1 and 2 only

(d) 3 and 4 only

Q41. Consider the following statements regarding Farming in India:

1. India ranks first in number of organic farmers and Sikkim is the world's first fully organic state.
2. Participatory Guarantee System is a process of certifying inorganic products, which ensures that their production takes place in accordance with laid-down quality standards.
3. Under Paramparagat Krishi Vikas Yojana Organic farming is promoted through adoption of organic villages by cluster approach and Participatory Guarantee System certification.

Which of the statements mentioned above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

Q42. With reference to Project BOLD (Bamboo Oasis on Lands in Drought), Which of the following statements are *incorrect*?

- (a) It seeks to reduce desertification and provide livelihood by creating bamboo-based green patches in arid and semi-arid land zones
- (b) Project BOLD was launched from a tribal village Nichla Mandwa in Rajasthan
- (c) Saplings of special bamboo species Bambusa Tulda and Bambusa Polymorpha brought from Assam have been planted on vacant arid Gram Panchayat land.
- (d) It is the first of its kind exercise in India that was launched by National Afforestation and Eco-Development Board

Q43. Consider the following statements in context of Carbon Farming:

1. Carbon farming is a system of agricultural management that helps the land store more carbon and reduce the amount of Greenhouse Gases (GHGs).
2. Enhanced land management or conservation practices like Grasslands Conservation and Mixed Farming are methods for Carbon Farming.

3. Assam is currently working on a blueprint of a 'carbon farming' Act to create a prototype of sustainable agriculture model.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q44. Which of the following statement is not correct with respect to the National Mission for Sustainable Agriculture (NMSA)?

- (a) To devise strategic plans at the agro-climatic zone level so that action plans are contextualised to regional scales is one the objective of this mission.
- (b) On Farm Water Management (OFWM) was implemented as one of the components of NMSA.
- (c) It aims at promoting Integrated Nutrient Management (INM) through judicious use of chemical fertilizers with organic manures and biofertilizers for improving soil health and its productivity.
- (d) NMSA derives its mandate from the Sustainable Agriculture Mission Which is one of the eight Missions outlined under National Action Plan on Climate Change (NAPCC).

Select the correct answer using the codes given below:

- (a) 3 only
- (b) 3 and 4 only
- (c) 1 and 2 only
- (d) None of the above

Q45. With reference to Biofertilizers, consider the following statements:

1. Biofertilizer is a substance which contains living microorganisms.

2. Biofertilizers add nutrients through the natural processes of fixing atmospheric nitrogen by action of bacteria.
3. Biofertilizers decrease phosphorus uptake by solubilizing and releasing unavailable phosphorus.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q46. Consider the following statements regarding National Bamboo Mission (NBM):

1. It is being implemented as a sub-scheme of Mission for Integrated Development of Horticulture (MIDH).
2. The Mission will focus on development of bamboo in all States where it has social, commercial and economical advantage.
3. Biochar produced by anaerobic combustion of bamboo has a tremendous beneficial effect on soil health by increasing organic carbon.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Answer Key

Q.1) Ans: C
 Q.2) Ans: B
 Q.3) Ans: A
 Q.4) Ans: C
 Q.5) Ans: C
 Q.6) Ans: C
 Q.7) Ans: B
 Q.8) Ans: D
 Q.9) Ans: C
 Q.10) Ans: B
 Q.11) Ans: D
 Q.12) Ans: D
 Q.13) Ans: A
 Q.14) Ans: C
 Q.15) Ans: C
 Q.16) Ans: C
 Q.17) Ans: A

Q.18) Ans: B
 Q.19) Ans: D
 Q.20) Ans: B
 Q.21) Ans: C
 Q.22) Ans: C
 Q.23) Ans: B
 Q.24) Ans: B
 Q.25) Ans: B
 Q.26) Ans: C
 Q.27) Ans: D
 Q.28) Ans: C
 Q.29) Ans: A
 Q.30) Ans: D
 Q.31) Ans: D
 Q.32) Ans: A
 Q.33) Ans: A
 Q.34) Ans: C

Q.35) Ans: B
 Q.36) Ans: B
 Q.37) Ans: C
 Q.38) Ans: B
 Q.39) Ans: D
 Q.40) Ans: D
 Q.41) Ans: A
 Q.42) Ans: D
 Q.43) Ans: A
 Q.44) Ans: D
 Q.45) Ans: A
 Q.46) Ans: C

Institutions and Measures

Q1. Which of the following statements is *incorrect* with respect to Mangrove for Future Initiative (MFF)?

- (a) MFF is joint collaboration of IUCN and UNDP
- (b) The initiative exclusively deals with the conservation and sustainable development of only Mangrove Ecosystem around the world.
- (c) The member countries of MFF consist of only Asian Nations.
- (d) The Sundarban Mangrove region is the largest mangrove ecosystem of the world.

Q2. Consider the following statements with reference to the National Green Corps Programme:

- 1. It is a joint initiative of the Union Ministry Education and Central Board of Secondary Education.
- 2. To promote logical and independent thinking among children so that they are able to make the right choices in a spirit of scientific inquiry.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. Which of the following statements is *incorrect* with reference to the National Environment Awareness Campaign (NEA(C)?

- (a) National Environment Awareness Campaign (NEA(C) is a national level programme launched by the Union Ministry of Environment, Forest and Climate Change (MOEFCC).
- (b) Different implementing agencies/institutions are responsible for implementing the NEAC in different states across India.

- (c) NGOs and Community Organizations can also participate in NEAC
- (d) None of the above statements is incorrect.

Q4. Consider the following statements with reference to the Environment Education Awareness and Training (EEAT) scheme:

- 1. It is a central sector scheme of the Ministry of Environment, Forest and Climate Change that aims to promote environmental awareness and mobilize student's participation for environment conservation.
- 2. The National Green Corps (NG(C) 'Eco Club' programme is a subsidiary of the EEAT scheme.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 and 2

Q5. Which of the above statements is *incorrect* with respect to Science Express?

- (a) It is the flagship venture of the three ministries, Ministry of Environment, Forests and Climate Change, Ministry of Science and Technology and Indian Railways.
- (b) Science Express was redesigned with the theme 'Biodiversity' and from 2012 to 2014, and it was running as Science Express Biodiversity Special (SEBS).
- (c) The models & videos on the Science Express were created by Nobel laureates of the Max Planck Society, Germany.
- (d) None of the above statement is incorrect

Q6. The National Electric Mobility Mission Plan 2020 is issued by which of the following organizations?

- (a) Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises
- (b) Ministry of New and Renewable Energy
- (c) NITI Aayog
- (d) Ministry of Environment, Forest and Climate Change

Q7. Consider the following statements with reference to Biodiversity Conservation and Rural Livelihood Improvement Project for India:

- 1. It is funded by the World Bank and implemented by the GEF trust fund.
- 2. Its aim is to develop and promote new models of conservation at the landscape scale through enhanced capacity and institution building for mainstreaming biodiversity conservation outcomes

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q8. Which of the following statements is *incorrect* with respect to 'Interest Subvention Scheme (ISS) for farmers?

- (a) It aims to provide concessional short term crop loans including loan availed through Kisan Credit Card (KCC) to the farmers.
- (b) There is a provision of foregoing interest amount in case of for prompt and timely repayment of loans by the farmers
- (c) Animal Husbandry and Fisheries are also included under the ISS.
- (d) Reserve Bank of India (RBI) and National Bank for Agriculture and Rural Development (NABARD) are the implementing agency for ISS.

Q9. Consider the following statements with regard to National Gene Bank:

- 1. The National Gene Bank was established in 1996 to preserve the seeds of Plant Genetic Resources (PGR).
- 2. The National Gene Bank has four kinds of facilities, namely, Seed Gene bank, Cryogene bank, In vitro Gene bank and Field Gene bank for conservation.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q10. Consider the following statements with reference to the 'Forum for Decarbonizing Transport':

- 1. The Forum for Decarbonizing Transport will help in achieving specific results in reducing emissions from the transport sector.
- 2. Ministry of Road Transport and Highways launched the 'Forum for Decarbonizing Transport'.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q11. Consider the following statements regarding the National Wetland Conservation Program:

- 1. Wetland management is the responsibility of central governments/UT administrations because the land resources belong to them.
- 2. The criteria for identifying wetlands of national significance under the National Wetland Conservation Program are the same as under the Ramsar Convention on Wetlands.

3. The National Wetland Conservation Program provides 100 percent funding for all conservation and protection activities.

Which of the statements given above are correct?

- (a) 2 and 3 only
- (b) 1 and 3 only
- (c) 1 and 2 only
- (d) 1, 2 and 3

Q12. Consider the following statements regarding E-Waste Management:

1. E-Waste (Management) Rules, 2016 rules shall apply to every manufacturer, producer, consumer, bulk consumer and collection centres including micro enterprises.
2. Under E-Waste (Management) Rules, 2016, every manufacturer, producer, bulk consumer, collection centre, dismantler and recycler may only store the e-waste for a period not exceeding sixty days.
3. The Nairobi Declaration, adopted at the Rotterdam Convention aimed at creating innovative solutions for the environmentally sound management of electronic wastes.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) None of the above

Q13. Consider the following statements in context of National Green Tribunal (NGT):

1. National Green Tribunal (NGT) also draws inspiration from Article 21 of the Indian Constitution.
2. The Tribunal is bound by the procedure laid down under the Code of Civil Procedure and mandated to make disposal of appeals within 1 year.

3. The NGT deals with civil cases under the Wildlife Protection Act of 1972 and the Forest Rights Act of 2006.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q14. Consider the following statements Regarding Fly Ash Management and Utilisation Mission:

1. It is established by the order of National Green Tribunal due to 'unscientific handling and storage' of the fly ash by coal thermal power stations.
2. The Mission is to be headed by the secretary of the Union Ministry of Coal and Power.
3. Fly ash particles combined with water cause leaching of heavy metals in groundwater.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q15. Consider the following statements regarding the Coastal Regulation Zones (CRZs):

1. CRZ norms are issued under Water (Prevention and Control of Pollution) Act, 1974 by the Ministry of Environment, Forest and Climate Change.
2. The CRZs rules exclude the intertidal zone and water area.
3. The latest CRZ Rules have a no-development zone of 20 m for all islands close to the mainland coast, and for all backwater islands in the mainland.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 3 only

Q16. Consider the following statements regarding Green Skill Development Programme:

1. The Green Skill Development Programme (GSDP) is an initiative for skill development in the environment and forest sector implemented by the Ministry of Skill Development and Entrepreneurship.
2. The program will help in the attainment of the Nationally Determined Contributions (NDCs), Sustainable Development Goals (SDGs), National Biodiversity Targets (NBTs), as well as Waste Management Rules (2016).

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q17. Clydebank declaration recently seen in news is related to:

- (a) Protecting at least 20 snow leopard landscapes with viable snow leopard populations by 2020
- (b) Conservation of whales and the importance of maintaining the moratorium on commercial whaling
- (c) Science -based and innovative actions on an urgent basis for Ocean conservation
- (d) Establishment of green shipping corridors globally

Q18. Which of the following statements is/are correct about the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)?

1. It publishes the Global Assessment of Biodiversity and Ecosystem Services report.
2. It was established under the Convention on Biological Diversity.
3. Non-Governmental Organizations (NGOs) can also join IPBES.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q19. Consider the following statements regarding the 11th World Urban Forum (WUF), 2022:

1. The World Urban Forum was established by the UN to examine rapid urbanization and its impact on communities, cities, economies, climate change and policies.
2. World Cities Report 2022 – Envisaging the Future of Cities said that the global urban population was back on track to grow by another 2.2 billion people by 2050.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q20. Which of the following initiatives were launched by The Energy and Resources Institute (TERI)?

1. World Sustainable Development Summit
2. Lighting a Billion Lives (LaBL)
3. Green Olympiad
4. Green Rating for Integrated Habitat Assessment (GRIHA)

Select the correct answer using the code given below:

- (a) 1 and 2 only

- (b) 2, 3 and 4 only
- (c) 3 and 4 only
- (d) 1, 2, 3 and 4

Q21. Consider the following regarding the Harnessing Green Hydrogen:

1. It is a report released by the Indian Meteorological Department (IMD).
2. Under it, three hydrogen corridors should be developed across the country based on state grand challenges.
3. Green hydrogen is utilized solely in fertilizers and methanol sectors.
4. It has recommended to reduce or exempt the GST & Custom duties on production of green hydrogen.

Which of the statements given above are correct?

- (a) 1, 2 and 4 only
- (b) 2 and 4 only
- (c) 1, 2 and 3 only
- (d) All of the above

Q22. In the context of 'Coalition for Disaster resilient Infrastructure' (CDRI) consider the following statements:

1. It promotes the resilient of both new and existing infrastructure systems to climate and disaster risks in support of sustainable development
2. CDRI along with other institutions release Global Resilience Index initiative (GRII)
3. Membership for CDRI includes National government, multilateral banks as well as Private sectors.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 1 and 3 only
- (c) 2 and 3 only

- (d) All of the above

Q23. NITI Aayog has recently launched the State Energy & Climate Index (SECI) - Round -1. In the context of this consider the following statements:

1. Gujarat has topped State Energy and Climate Index-Round 1 among larger states, followed by Kerala and Punjab.
2. The 'Clean Energy initiative' has the highest weightage among all parameters of the State Energy & Climate Index (SECI).
3. States and UTs have been categorised into groups of 'Performers', 'Front Runners', 'Achievers', and 'Aspirants'.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q24. In the context of 'World heritage Forests' report, consider the following statements:

1. The 'World heritage Forests' report has been published by UNESCO in collaboration with the International Union of Forest Research Organisations and Forest Survey of India, Dehradun.
2. Andaman and Nicobar are among five sites that have the highest blue carbon stocks globally

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q25. Consider the following statements about Global Wildlife Program:

1. It is a World-Bank led global partnership that promotes wildlife conservation and sustainable development by combating illicit trafficking in wildlife.
2. It was launched by Global Environment Facility (GEF) as the "Global Partnership on Wildlife Conservation and Crime Prevention for Sustainable Development".
3. It seeks to reduce both supply and demand that drives legal wildlife trade, and protect species and habitats through integrated landscape planning.

Which of the statements given above is/are incorrect?

- (a) 3 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q26. "HIGH FLYING: Insight into wildlife trafficking through India's airports" is a report which found the trafficking of over 70,000 native and exotic wild animals at Indian airports between 2011-2020. The report is published by?

- (a) United Nations Development Programme
- (b) TRAFFIC
- (c) World Wide Fund
- (d) World Economic Forum

Q27. Consider the following statements with reference to the South Asia Wildlife Enforcement Network (SAWEN):

1. It is formed to strengthen ties with the member countries in controlling the trans-boundary wildlife crime through communication, cooperation in the region.
2. Countries like Afghanistan, Bangladesh, Bhutan, India is among its members.
3. SAWEN operates from the Secretariat based in Dhaka, Bangladesh.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) All of the above

Q28. Consider the following statements with reference to the National Tiger Conservation Authority:

1. The Wild Life Protection (Amendment) Act of 2006 provides for the constitution of this statutory authority.
2. It has powers to approve the Tiger Conservation Plan prepared by the State Government.
3. It has powers to evaluate and assess various aspects of sustainable ecology and disallow any ecologically unsustainable land use such as mining, industry and other projects within tiger reserves.

Which of the statements given above are correct?

- (a) 1 and 3 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) All of the above

Q29. With reference to the National Afforestation and Eco Development Board (NAEB), consider the following statements:

1. It is a statutory body which has been set up as per the provisions of the Forest Rights Act, 2006.
2. It gives special attention to the regeneration of degraded forest areas and lands adjoining forest areas.

Which of the above statements is/are correct ?

- (a) 1 only
- (b) 2 only

- (c) Both 1 and 2
 (d) None of the Above

Q30. Consider the following statements in context of National Clean Energy Fund:

1. It has been created out of cess on crude oil produced/imported under the Ministry of Petroleum and Natural Gas (MoPNG).
2. It was built on the 'polluter pays' principle to hold emitters of carbon dioxide responsible for the pollution.
3. NCEF is one the sources of climate financing in India to support mitigation and adaptation actions that will address climate change.

Which of the statements given above is/are correct?

- (a) 2 only
 (b) 2 and 3 only
 (c) 1 and 3 only
 (d) All of the above

Answer Key

Q.1) Ans: B	Q.16) Ans: A
Q.2) Ans: B	Q.17) Ans: D
Q.3) Ans: D	Q.18) Ans: A
Q.4) Ans: C	Q.19) Ans: C
Q.5) Ans: D	Q.20) Ans: D
Q.6) Ans: A	Q.21) Ans: B
Q.7) Ans: B	Q.22) Ans: D
Q.8) Ans: B	Q.23) Ans: C
Q.9) Ans: C	Q.24) Ans: D
Q.10) Ans: A	Q.25) Ans: D
Q.11) Ans: A	Q.26) Ans: B
Q.12) Ans: D	Q.27) Ans: C
Q.13) Ans: A	Q.28) Ans: D
Q.14) Ans: C	Q.29) Ans: B
Q.15) Ans: B	Q.30) Ans: B

Acts and Policies

Q1. Consider the following laws related to the environment:

1. Indian Forest Act, 1927.
2. Wildlife Protection Act, 1972.
3. Forest Act (Conservation), 1980.
4. Environment (Protection) Act, 1986.
5. Public Liability Insurance Act, 1991.
6. Biological Diversity Act, 2002.
7. Forest Rights Act, 2006

Which of the above acts have some bearing on the authority of National Green Tribunal (NGT)?

- (a) 1, 3, 4, 5 and 6 only
- (b) 3, 4, 5, 6 and 7 only
- (c) 3, 4, 5 and 6 only
- (d) 2, 3, 4 and 6 only

Q2. With reference to the Environment Protection Act, 1986, consider the following statements:

1. The genesis of the act is in Article 48A and Article 51A (g) of the Indian Constitution.
2. The Act empowers the Civil Courts to entertain any suit or proceeding in respect of an action or order issued by the Central Government.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q3. Consider the following statements with reference to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006:

1. The term 'minor forest produce' is defined under this act.

2. The Nodal Agency for the implementation of the act is MoEFCC.
3. The Gram Panchayat has been designated as the competent authority for initiating the process of determining the nature and extent of individual or community forest rights or both.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) 1 and 3 only

Q4. Government has brought some changes in the categorization of bamboo. In this regard, consider the following statements:

1. The Forest Conservation Act, 1980 was amended to remove bamboo from the category of timber and enlisted it under the category of grass.
2. The bamboo grown in forest areas continues to be defined as timber.
3. The Forests Rights Act (FRA), 2006 classifies bamboo as a non-timber forest product.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q5. With reference to India, consider the following environmental acts:

1. Water (Prevention and Control of Pollution) Act, 1974.
2. Air (Prevention and Control of Pollution) Act, 1981.
3. Forest Conservation Act, 1980.

4. Environment (Protection) Act, 1986.
5. Forest Rights Act, 2006.
6. Water (Prevention and Control of Pollution) Cess Act of 1977.

Which among the above acts empowers the Central Pollution Control Board (CPCB)?

- (a) 1, 2, 3, 4 and 6 only
- (b) 2, 3, 4 and 5 only
- (c) 1, 2, 4 and 6 only
- (d) 1, 2, 3 and 6 only

Q6. Consider the following pollutants:

1. PM 10
2. Arsenic
3. Lead
4. Nickel
5. Benzene
6. Carbon Monoxide (CO)
7. Ammonia (NH₃)

Which of the above pollutants are common to both the National Air Quality Index (AQI) and National Ambient Air Quality Standards (NAAQS)?

- (a) 1, 3, 4, 5 and 6
- (b) 1, 2, 3, 4, 5 and 6
- (c) 2, 3, 4, 5 and 6
- (d) 1, 3, 6 and 7

Q7. Consider the following statements with reference to the Environment (Protection) Act (EPA):

1. The EPA Act can be invoked in case of damage to a property due to hazardous substances.
2. The administration and authority under this act are divided among the Central and State Governments.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q8. "The Critical Wildlife Habitats (CWHs)" are defined as areas that are required to be kept as inviolate for the purposes of wildlife conservation. They are so defined under which of the following acts?

- (a) Scheduled Tribes and Other Traditional Forest Dwellers Act, 2006
- (b) Wildlife Protection Act, 1972
- (c) Environment Protection Act, 1986
- (d) Prevention of Cruelty to Animals Act, 1960

Q9. With reference to the Forest (Conservation) Act, 1980, consider the following statements:

1. The act clearly defines the term "deemed forests" and makes provisions for their governance.
2. The act stipulates that prior approval of the Central Government is essential for diversion of forest areas for non-forestry purposes by State Governments.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

Q10. "The Management Effectiveness Evaluation" framework, sometimes seen in the news, is associated with -

- (a) Management of Inter-state Rivers in India
- (b) Management of protected areas such as national parks and wildlife sanctuaries
- (c) Survey of Endemic species in biodiversity hotspots in India

- (d) Management of Ground-Water resources in India

Q11. According to Wetlands (Conservation and Management) Rules, 2017, Which of the following are included under the definition of Wetland in India?

1. Natural Peatland
2. Inundated paddy fields
3. Artificial tanks for aquaculture.
4. Lagoons and creeks
5. Marshes and Fens
6. Artificial Tanks constructed for irrigation purposes

Select the correct answer using the code given below:

- (a) 1,2,4 and 5 only
- (b) 1,4 and 5 only
- (c) 2,3,4 and 6 only
- (d) 1,3,5 and 6 only

Q12. According to the Biological Diversity Act, 2002, which of the following constitute the definition of biological resources under the act?

1. Genetic material of Animals
2. Value added products derived from plants
3. Human genetic material
4. Genetic Material of Microorganisms

Select the correct answer using the code given below:

- (a) 1 and 4 only
- (b) 1,2 and 4 only
- (c) 2 and 3 only
- (d) 1,2,3 and 4

Q13. Which state government became the first Indian state to adopt the Fly Ash Utilization Policy to generate wealth from waste and environment protection?

- (a) Karnataka
- (b) Maharashtra
- (c) Kerala
- (d) Gujrat

Q14. The Wetlands (Conservation and Management) Rules, 2017 are *not* applicable to which of the following acts?

1. Indian Forest Act, 1927
2. Forest (Conservation) Act, 1980
3. Wildlife protection Act, 1972

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1,2 and 3

Q15. The *Forest Advisory Committee*, often seen in the news, has been constituted under the:

- (a) Forest Rights Act, 2006
- (b) Wildlife Protection Act, 1972
- (c) Forest (Conservation Act), 1980
- (d) Indian Forest Act, 1927

Q16. The nodal responsibility for the coordination and implementation of the '*National Mission for Sustaining the Himalayan Ecosystem*' has been given to the:

- (a) Ministry of Environment, Forest and Climate Change.
- (b) Ministry of Science and Technology
- (c) Ministry of Development of North Eastern Region
- (d) Ministry of Earth Sciences

Q17. With reference to the National Board for Wildlife (NBWL), consider the following statements:

1. The NBWL has been given statutory status under the Wildlife Protection Act, 1972.

2. The State Government must mandatorily take approval from the NBWL before de-notifying a tiger reserve.
3. No alteration of boundaries in wildlife sanctuaries can be done without approval of the NBWL.

Which of the above statements is/are incorrect?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1,2 and 3
- (d) None of the above

Q18. The term “Non-attainment cities”, sometimes seen in the media, is associated with:

- (a) National Mission on Sustainable Habitat
- (b) National Clean Air Programme
- (c) Climate Smart Cities Assessment Framework
- (d) Green Rating for Integrated Habitat Assessment (GRIHA).

Q19. With reference to Eco-Sensitive Zones (ESZ), consider the following statements:

1. They are ecologically fragile and sensitive areas within 10 kms around National Parks only.
2. They are notified under the Environment Protection Act,1986.
3. In case of places with sensitive corridors, connectivity and ecologically important patches, even area beyond 10 kms width can be included in the ESZs.

Which of the above statements is/are incorrect?

- (a) 1 only
- (b) 1 and 3 only
- (c) 2 and 3 only
- (d) 1,2 and 3

Q20. Consider the following statements:

1. There are more conservation reserves than community reserves in India.
2. There are more community reserves than wildlife sanctuaries in India.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

Q21. With reference to the recently notified the Plastic Waste Management Amendment Rules, 2021, consider the following statements:

1. It prohibits all single use plastic items which have low utility and high littering potential by 2022.
2. Some plastic packaging waste is not covered under the phase out of single use plastic items.
3. In the 4th United Nations Environment Assembly held in 2019, India had piloted a resolution on addressing single-use plastic products pollution.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q22. Consider the following statement regarding Plastic Waste Management Amendment Rules, 2021:

1. Extended Producer Responsibility being brought out has been given legal force through this amendment rules.
2. This will not allow reuse of plastic carry bags due to any condition.

Which of the statements given above is/are correct?

- (a) 1 only

- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

Q23. Consider the following statements regarding the Wildlife Protection Act 1972:

1. Wildlife protection act extend to the whole of India except Andaman and Nicobar and Pondicherry Union Territories.
2. Both the central and state governments are empowered to declare any wild animal as vermin.

Which of the statements given above are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) None of the above

Q24. Consider the following statements regarding the Biological Diversity (Amendment) Act, 2021:

1. The provisions which made offences under the Biological Diversity Act cognizable and non-bailable were deleted.
2. The Act directs the central government to set up the National Biodiversity Authority.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q25. Consider the following statements regarding the biomedical waste management rules 2016:

1. Biomedical waste is defined as human and animal anatomical waste, treatment apparatus like needles, syringes and other materials used in health care facilities in the process of treatment and research.

2. Rules do not cover the vaccination camps, blood donation camps, and surgical camps.
3. The State Government provides the land for setting up a common bio-medical waste treatment and disposal facility.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 and 3 only
- (c) 3 only
- (d) 2 and 3 only

Q26. Which of the following are the reasons behind banning Single Use Plastic (SUP)?

1. Contribute in greenhouse gas emissions.
2. Creating Microplastics.
3. Leads to Soil infertility and underground pollution.
4. Easy to collect for recycling.

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q27. Consider the following statements regarding Environment Impact Assessment:

1. Environment Impact Assessment in India is statutorily backed by the Forest (Conservation) Act 1980.
2. The public hearing is a mandatory step in the process of environmental clearance for certain developmental projects and district collector is the chairperson of the committee.
3. The Environment Impact Assessment notification of 2006, made it mandatory for industries including very small electroplating

or foundry units to get environment clearance.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q28. Consider the following statements regarding the Forest (Conservation) Act, 1980:

1. The State Government can issue orders directing de-reservation of the reserved forests.
2. The State Government can divert a small patch of forest for "essential non-forest purposes".
3. It gives the Central Government the power to constitute a committee for the grant of approval for the purpose which is prohibited in this Act.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q29. Which of the following statements is/are correct about the Water (Prevention and Control of Pollution) Act, 1974?

1. It defines both, water pollution and water quality standards.
2. It provides for maintenance and restoration of quality of all types of surfaces and groundwater.
3. It authorizes the Department of Water Resources, River Development & Ganga Rejuvenation to implement the work for the objectives of the Act.

Select the correct answer using the codes given below:

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q30. Consider the following statements regarding Protection of Plant Varieties and Farmers' Rights Act, 2001?

1. The act was enacted under the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS).
2. It is the world's only IPR legislation which grants intellectual property rights not only to the plant breeders but also to the farmers.
3. Under this act Researchers can use any of the registered varieties for conducting experiments or research.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Q31. Plastic Waste Management (Amendment) Rules, 2022 has been announced by the Ministry of Environment, Forest, and Climate Change (MoEFCC). Consider the following statements regarding this:

1. Trading of surplus extended producer responsibility certificates has been allowed first time through the new Plastic waste management rules 2022
2. Reuse of flexible plastic packaging material has been mandated in the guidelines
3. Decentralised online portal has been established by every State Pollution Control Board under the rules.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 1 and 3 only

Q32. Consider the following statement about Extended Producer Responsibility (EPR) certificates:

1. The Extended Producer Responsibility (EPR) certificates that allow companies to bridge shortfalls in target through trading of certificates, will be traded through Indian Energy Exchange (IEX) Platform
2. Extended Producer Responsibility (EPR) certificates is issued by the Secretary, Ministry of Environment, Forest and Climate Change (MoEFCC)

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q33. Consider the following statements regarding National Air Quality Monitoring Program:

1. National Air Quality Monitoring Program is a nationwide programme of ambient air quality monitoring by the Central Pollution Control Board.
2. Under the programme, four air pollutants viz Sulfur Dioxide (SO₂), Oxides of Nitrogen as NO₂, Respirable Suspended Particulate Matter (RSPM / PM₁₀) and Fine Particulate Matter (PM_{2.5}) have been identified for regular monitoring.
3. Along with the monitoring of air quality, meteorological factors like temperature,

relative humidity (RH) and wind speed and direction are also tracked under the program.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Q34. Consider the following statements regarding Pesticide pollution and regulation in India:

1. Bureau of Indian Standards is responsible for recommending tolerance limits of various pesticides in food commodities.
2. Central Pollution Control Board is responsible for advising governments on technical issues related to manufacture, use and safety issues related to pesticides
3. 'Bio-magnification' or 'Ecological amplification' increases pesticide concentration in the tissues of animals that feed on plants, insects.

Which of the statements given above is/are correct?

- (a) 2 only
- (b) 1 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Q35. Consider the following statements regarding ethanol blending:

1. An ethanol blend is defined as a blended motor fuel containing ethyl alcohol that is at least 99% pure, derived from agricultural products and blended exclusively with gasoline.
2. The government has allowed ethanol production from surplus rice with Food Corporation of India and maize respectively for blending with petrol under Ethanol Blended Petrol (EBP) programme.

3. The Government of India has advanced the target for 30% ethanol blending in petrol to 2025 from 2030.
4. Ministry of Petroleum and Natural Gas is the nodal department for promotion of fuel grade ethanol producing distilleries in the country.

Which of the statements given above are correct?

- (a) 2 and 4 only
- (b) 2 and 3 only
- (c) 1 and 2 only
- (d) 1, 2, 3 and 4

Q36. Consider the following statements regarding Air (Prevention and Control of Pollution) Act 1981:

1. It defines an 'air pollutant' as any solid, liquid or gaseous substance which may cause harm or damage the environment, humans, plants, animals or even damage property.
2. In 2007, an amendment to the Act also added 'noise' in the list of harmful substances.
3. The Central Pollution Control Board lays down standards for the quality of air and provides technical assistance and guidance to the State Pollution Control Board.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) 1 and 3 only
- (d) None of the above

Q37. Consider the following statements regarding the Commission for Air Quality Management (CAQM):

1. It is a statutory body established under the Air (Prevention and Control of Pollution) Act 1981.

2. It Conduct research and development through networking with technical institutions.
3. The Commission will supersede bodies such as the central and state pollution control boards of Delhi, Punjab, Haryana, UP and Rajasthan.
4. The commission is headed by Union Minister for Environment and Climate Change.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 4
- (d) 1, 2, 3 and 4

Q38. Consider the following statements regarding CAMPA (Compensatory Afforestation Fund Management and Planning Authority) Act, 2016:

1. National Compensatory Afforestation Fund was established under the consolidated fund of India.
2. It will help to achieve the objectives of the Nationally-Determined Contributions (NDCs) to create an additional carbon sink equivalent to 2.5 to 3 billion tonnes of carbon dioxide by the year 2030.
3. Under this act Funds will receive payments for compensatory afforestation and Net present value of forest (NPV).

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) None of the above

Q39. Which of the following are the areas where Compensatory Afforestation Funds can be used for?

1. Treatment of catchment areas

2. Soil and Moisture Conservation Works
3. Managing human-wildlife conflicts
4. Payment of salary, travelling allowances, medical expenses for Forest Officers and Guards

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q40. Consider the following statements regarding Comprehensive Environmental Pollution Index (CEPI):

1. It has been developed by the Central Pollution Control Board (CPCB).
2. Industrial clusters having CEPI score greater than 10 have been identified as critically polluted.
3. The index captures the various dimensions of the environment including air, water, noise and land.

Which of the statements given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 3 only
- (d) All of the above

Q41. Consider the following statements about the "ECOMARK" Scheme:

1. Ecomark is a certification mark issued by the Ministry of Environment, Forest and Climate Change for labelling environment-friendly products.
2. It provides an incentive for manufacturers and importers to reduce adverse environmental impact of products.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q42. Consider the following statements regarding Environment (Protection) Act, 1986:

1. It empowers the Central and State Government to establish authorities charged with the mandate of preventing environmental pollution in all its forms.
2. The purpose of this act is to implement the decisions of the United Nations Conference on Human Environment of 1972.
3. If an offence under this Act is committed by a company, every person directly in charge of the company, at the time of the commitment of offence, is deemed to be guilty unless proven otherwise.

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q43. Consider the following statements regarding National Ganga River Basin Authority:

1. It was replaced by the National Ganga Council which is in charge of preventing pollution and revitalizing the Ganga River and also its tributaries.
2. It was established in 2009 under the Water (Prevention and Control of Pollution) Act, 1974 and chaired by the minister of water resources.
3. It is mandated to ensure the maintenance of minimum ecological flows in the river Ganga and Augmentation of Sewerage Infrastructure.

Which of the statements given above is/are incorrect?

- (a) 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) None of the above

Q44. Consider the following statements regarding National Plan for Conservation of Aquatic Ecosystems (NPCA):

1. It is a Centrally-sponsored scheme formulated by merging the National Lake Conservation Plan and the National Wetlands Conservation Programme.
2. It covers various activities such as interception, diversion and treatment of wastewater, shoreline protection, lakefront development, in-situ cleaning.
3. The NPCA is a single conservation programme solely for lakes and currently being implemented by the Union Ministry of Environment and Forests and Climate Change (MoEFCC).

Which of the statements given above are correct?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All of the above

Q45. Consider the following statements regarding Biological Diversity Act, 2002:

1. It was born out of India's attempt to realize the objectives enshrined in the United Nations Framework Convention on Climate Change (UNFCCC).
2. It seeks to check biopiracy, protect biological diversity and local growers through a three-tier structure of central and state boards and local committees.
3. Indian biological resources that are typically sold as commodities for its research or

commercial utilization, are covered by this Act.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 2 only
- (c) 1 and 3 only
- (d) All of the above

Q46. Consider the following statements regarding Biological Diversity:

1. United Nations Convention on Biological Diversity is a legally binding treaty of 1972 and India became a party to this convention in 1974.
2. The Cartagena protocol is the supplementary agreement of the Convention on Biological Diversity which talks about the fair & equitable sharing of benefits arising out of the utilisation of genetic resources.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q47. Consider the following organisations:

1. Zoological Survey of India
2. Wildlife Crime Control Bureau
3. Bombay Natural History Society
4. Animal Welfare Board of India

Which of the organisations given above is/are Statutory bodies established under Wildlife Protection Act 1972?

- (a) 2 and 3 only
- (b) 1 and 4 only
- (c) 2 only
- (d) 2, 3 and 4 only

Q48. Which of the following initiatives are covered under the National Mission for Enhanced Energy Efficiency (NMEEE)?

1. Perform Achieve and Trade scheme (PAT)
2. Market Transformation for Energy Efficiency (MTEE)
3. Energy Efficiency Financing Platform (EEFP)
4. Bureau of Energy Efficiency (BEE)

Select the correct answer using the codes given below:

- (a) 1 and 4 only
- (b) 1, 2 and 3 only
- (c) 2 and 3 only
- (d) All of the above

Q49. Consider the following statements:

1. The Central Ground Water Authority and the Central Water Commission are created under the purview of the Environment (Protection) Act, 1986.
2. India is a signatory to the International Convention for the Prevention of Pollution from ships.

Which of the statements given above is/are incorrect?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q50. Consider the following statements regarding National Clean Air Programme NCAP:

1. The NCAP has set a target of reducing air pollutants PM₁₀ and PM_{2.5} by 20-30% by 2024, in non-attainment cities taking the pollution levels in 2017 as the base year.

2. Ministry of Housing and Urban affairs will execute this nation-wide programme for the prevention, control, and abatement of air pollution within the framework of NCAP.
3. It does not have a legal mandate to cities and regions to implement NCAP in a time bound manner for effective reduction.

Which of the statements given above is/are correct?

- (a) 1 and 2 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Answer Key

Q.1) Ans: C	Q.18) Ans: B	Q.35) Ans: C
Q.2) Ans: A	Q.19) Ans: A	Q.36) Ans: B
Q.3) Ans: A	Q.20) Ans: D	Q.37) Ans: B
Q.4) Ans: C	Q.21) Ans: B	Q.38) Ans: B
Q.5) Ans: C	Q.22) Ans: A	Q.39) Ans: B
Q.6) Ans: D	Q.23) Ans: C	Q.40) Ans: A
Q.7) Ans: A	Q.24) Ans: B	Q.41) Ans: A
Q.8) Ans: A	Q.25) Ans: B	Q.42) Ans: B
Q.9) Ans: B	Q.26) Ans: B	Q.43) Ans: A
Q.10) Ans: B	Q.27) Ans: B	Q.44) Ans: A
Q.11) Ans: B	Q.28) Ans: C	Q.45) Ans: B
Q.12) Ans: A	Q.29) Ans: B	Q.46) Ans: C
Q.13) Ans: B	Q.30) Ans: D	Q.47) Ans: C
Q.14) Ans: D	Q.31) Ans: B	Q.48) Ans: B
Q.15) Ans: C	Q.32) Ans: C	Q.49) Ans: A
Q.16) Ans: B	Q.33) Ans: D	Q.50) Ans: B
Q.17) Ans: D	Q.34) Ans: C	

Miscellaneous

Q1. Consider the following statements with respect to the concept of 'Debt-for-Nature Swap':

1. Debt-for-nature swaps (DNS) are financial transactions in which a portion of a developing nation's foreign debt is forgiven in exchange for local investments in environmental conservation measures.
2. It is an initiative of the World Bank and the concerned nation's central Bank is the implementation agency.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q2. 'Ubsu', 'Belesu', 'Balasu' is a popular slogan associated with which of the following environmental movement in India?

- (a) Jungle Bachao Andolan, 1982
- (b) Save Silent Valley Movement, 1978
- (c) Appiko Movement, 1983
- (d) Bishnoi Movement, 1700s

Q3. The term "putrescibility" can be best described as:

- (a) It involves the decomposition of organic matter in water in the presence of oxygen.
- (b) It involves the decomposition of organic matter in water in the absence of oxygen.
- (c) It involves the decomposition of inorganic matter in the presence of sunlight and water.
- (d) It involves the decomposition of inorganic matter in water in the presence of oxygen by microorganisms.

Q4. Consider the following pairs of ground water contaminants and diseases associated

Contaminants:	Diseases:
1. Nitrates	Minamata Disease
2. Arsenic	Blue baby syndrome
3. Mercury	Black Foot Disease

Which of the pairs given above is/are correctly matched?

- (a) 1 only
- (b) 2 only
- (c) 3 only
- (d) None of these

Q5. The term 4 per 1000 is often mentioned in news in contest of the following of :

- (a) Nitrogen pollution
- (b) CO₂ emission
- (c) Soil carbon
- (d) Global warming.

Q6. With reference to India's biodiversity Crimson rose, Painted Jazebel, Common peacock, and Kaiser-I-hind are?

- (a) Primates
- (b) Birds
- (c) Reptiles
- (d) Lepidoptera

Q7. Consider the following statements regarding Marine Heat Waves:

1. Marine Heat Waves occur when seawater temperature exceeds a seasonally varying temperature for at least 5 consecutive days.

2. Marine Heat Waves are due to rapid warming in the Indian Ocean and strong La Nina Events.
3. Marine Heat Waves will significantly impact India's monsoon patterns and Gulf of Mannar coral health.

Which of the statements given above is/are correct?

- (a) 1 and 3 only
- (b) 1 only
- (c) 2 and 3 only
- (d) 2 only

Q8. "A wetland formed in 1984 by the construction of Madhya Ganga Barrage at the confluence of Solani and Ganga rivers, and is a part of Hastinapur Wildlife Sanctuary. This wetland site is designated under the Ramsar Convention as wetland of international importance".

Which of the following wetland is referred to in the above lines?

- (a) Yashwant Sagar
- (b) Bhindawas
- (c) Haiderpur
- (d) Satkosia gorge

Q9. Which of the statements correctly explain PASIPHAEE recently seen in the news?

- (a) A newly discovered spider species in the Western Ghats.
- (b) A sky surveying project
- (c) A supercomputer built by India
- (d) A carbon tracking initiative by Russian

Q10. Recently published 'Annual Frontier Report, 2022' is released by:

- (a) The Wildlife Trade Monitoring Network (TRAFFIC)
- (b) International Union for Conservation of Nature and Natural Resources (IUCN)

- (c) World Economic Forum (WEF)
- (d) United Nations Environment Programme (UNEP)

Q11. Recently 'Bruguiera cylindrica' was in the news, is associated with:

- (a) Mangrove species
- (b) Coral reefs
- (c) Invasive species
- (d) Flowering plant

Q12. "Torrefaction technology" is talked about in which one of the following situations?

- (a) Restoration of damaged coral reefs.
- (b) Development of Semiconductor from sustainable methods.
- (c) Identification of areas for exploration/extraction of shale gas.
- (d) Sustainable method to produce waste to energy.

Q13. The phenomenon of 'Colony Collapse Disorder' (CCD) is related to which of the following?

- (a) Elephants
- (b) Bees
- (c) Butterfly
- (d) Birds

Q14. Which of the following statements is incorrect with respect to the recently in news Aatmanirbhar Bharat ARISE- ANIC (ARISE-Atal New India Challenges) initiative?

- (a) It is an initiative launched under the Atmanirbhar Bharat to fast track the growth of the Indian MSME sector.
- (b) The Atmanirbhar Bharat ARISE- ANIC initiative is launched by the Atal Innovation Mission (AIM), NITI Aayog and driven by the Indian Space Research Organization as one of the institutions.
- (c) Startups can also apply under the Atmanirbhar Bharat ARISE- ANIC initiative.
- (d) None of the above statements are incorrect.

Answer Key	
Q.1) Ans: A	Q.8) Ans: C
Q.2) Ans: C	Q.9) Ans: B
Q.3) Ans: A	Q.10) Ans: D
Q.4) Ans: D	Q.11) Ans: A
Q.5) Ans: C	Q.12) Ans: D
Q.6) Ans: D	Q.13) Ans: B
Q.7) Ans: A	Q.14) Ans: D